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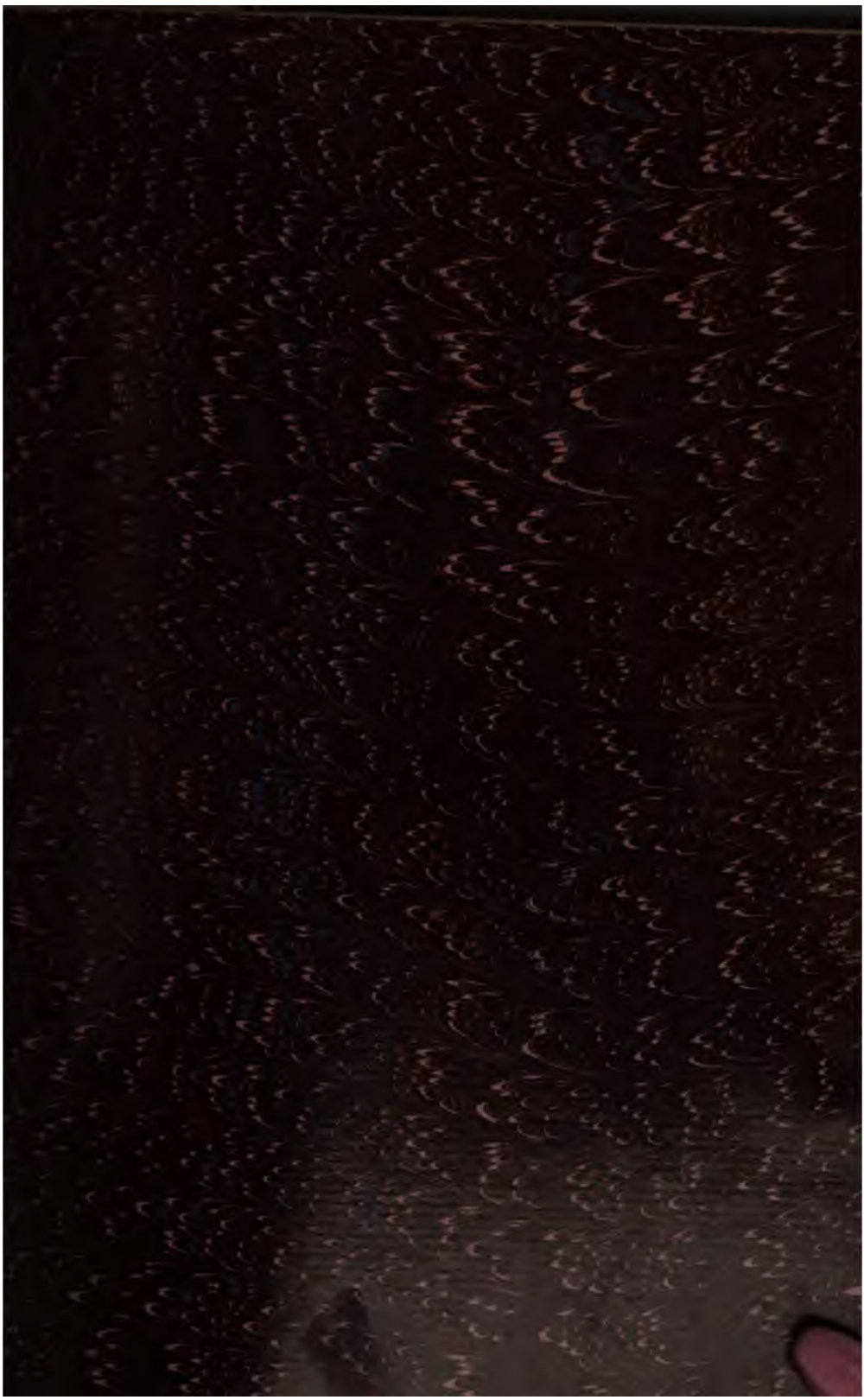

AMERICAN SOCIETY

OF

CIVIL ENGINEERS.

CATALOGUE OF THE LIBRARY

JUNE, 1900

Prepared by the Secretary
under the direction of
The Library Committee

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Library

INTRODUCTION.

When the Society moved into its present House, in November, 1897, the shelf room available made it possible to rearrange the Library on a basis which should provide for future expansion. In considering methods for this rearrangement it became evident that a new index was a necessity, and various plans were discussed and systems examined, one of the essentials being that the work should be carried on without interfering with the daily use of the Library.

The plan adopted provided for three separate type-written card indexes as follows:

The **Classified Index**, the **Author Index**, the **Subject Index.**

In the **Classified Index** the General Classes are indicated by capital letters (**A** to **Z**); subdivisions of General Classes are indicated by lower-case letters (**a**, **b**, **c**, etc.); consecutive numbers (1, 2, 3, etc.) are used for entries under each subdivision. The books in each subdivision are brought together on the shelves. In the Card Index the arrangement is alphabetical for each subdivision. Books relating to more than one class are cross-indexed, and, owing to the fact that there are many volumes made up of pamphlets on separate subjects, it quite often occurs that a title must be catalogued in one subdivision, and placed on the shelves in another.

The **Author Index** is arranged alphabetically, and many duplicate entries are made therein. In order to bring together material which otherwise would be separated, the Names of Railroads, Structures, Waterways, Municipalities and Corporations are frequently used as Authors. Thus, a report relating to a railroad, water-works, or sewerage matter, is brought out under the name of the author, and also under the name of the particular corporation to which it relates.

The **Subject Index** is arranged under headings covering details not specifically brought out in the Classified Index. Here, for instance, is

249255

brought together for ready reference, material on Rails, Ties, Ballast, Water Tanks, Locomotives, etc., to find which would require search through the books classified in the subdivisions of Railroads. This index does not pretend to bring out all material under each such heading, but is sufficiently comprehensive to save much time to one who visits the Library in search of information on specific details.

Work on these three Indexes was begun April 1st, 1898, and is now finished, more than 58 000 cards having been written. The Board of Direction has authorized the publication of a Catalogue of the Library for distribution to the membership. For this purpose the printing of the **Author** and **Subject Indexes** is not considered necessary or expedient, and this volume reproduces the **Classified Index.**

The general subdivisions with the necessary explanatory notes, and list of abbreviations used are given in the following pages.

There are branches of engineering work common to several of the general classes, and also subjects to determine the proper position of which a careful analysis of the whole scheme of classification is necessary. A list of such subjects has been prepared showing where general books upon them have been classified, and also giving references to other classes under which information relating to them may be sought.

CHAS. WARREN HUNT,
Secretary.

NEW YORK, JUNE, 1900.

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LIST SHOWING CLASSIFICATION OF SPECIAL SUBJECTS.

This list is printed as an aid to the use of the catalogue, and contains only subjects the classification of which must be determined by a careful study of the whole scheme, and subjects which have necessarily been classified under more than one head. When the class letters are not enclosed in parentheses, they indicate the subdivision where the subject is primarily classed; when so enclosed, they indicate the class in which some material on that subject may be found.

Acoustics.....Yl
Almanacs.....U
Aqueducts.....Dc Cf
Armor Plate.....Kd Lc
Asphalt.....Yh
Asphalt Pavements.....Ne
Assaying.....Yi
Automobiles.....Ga
Barometers.....Yj (R)
Beacons.....Cc
Brick.....Jc
Brick-Making.....Jc (Ga)
Buoys.....Cc
Caissons.....Fa (Cc)
Carpentry.....Ja
Cast Iron.....Jc
Cathedrals.....Ja (Jb)
Cement.....Jc
Chimneys.....Ja
Coal.....Yh
Concrete.....Jc
Continuous Girders.....Fe
Copper.....Yi
Dams:
  Coffer.....Fa
  Fixed.....Da (Cb Dc Dd De)
  Movable.....Cb (De)
Dredging.....Ca (Cb Cc Cd)
Dry Docks.....Kb
Dynamics.....V Yl
Earthwork.....Ac
Electro-Magnetism.....Ha
Engines:
  Gas.....Ga
  Locomotive.....Ad
  Petroleum.....Ga
  Pumping.....Dc (Da De Ec Ma)
  Marine.....Gc
  Traction.....Gc
Evaporation.....Yj (Da)
Explorations.....Qe
Explosives.....Ld Ma (Ac)
Ferries.....Cc (Ad)
Filtration.....Db Ee
Finance.....Zj
Foundations.....Ja
Fuel.....Gd (Za)
Gold.....Yi
Graphical Statics.....Fa
Horticulture.....Yb
Hydraulics.....Da (Cb Dc De Ec)
Hydrodynamics.....Da (Dd)
Hydrostatics.....Da
Hygrometers.....Yj
Indexes.....U
Iron.....Yh
Labor.....Zj
Land Reclamation.....Eb
Lighthouses.....Cc
Lightships.....Cc
Locomotives.....Ad
Magnetism.....Ha Yl

Manometers.....Gc
Map-making.....R
Masonry.....V Ja
Mechanics.....V
Mineralogy.....Yh
Oil Wells.....Yh
Optics.....Yl
Ornithology.....Yn
Paint.....Jc
Paleontology.....Yh
Petroleum.....Yh
Piles and Pile-driving...Ja (Fa Cc)
Planing Machines.....Ga
Pottery.....Ze
Preservation of Timber.....Jc
Rainfall.....Yj
Reservoirs.....Da (Dc De)
Retaining Walls.....Ac
Riparian Rights..Ca (Cb Cc Dc De)
Roofs.....Ja (Fa Fb)
Rope Transmission.....Ga
Shell Roads.....Nc
Ship Building.....Ka
Ship-Railroads.....(Ab Ac)
Silver.....Yi
Specifications (General).....V
Steel.....Jc
Street Cleaning.....Ef
Strength of Materials.....V
Tariff.....Zj
Testing Machines.....Ga
Thermodynamics.....Yl
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Timber.....Jc
Tubular Bridges.....Fe
Tunnels.....Ac Bc Dc
Wages.....Zj
Wrought Iron.....Jc

EXPLANATORY NOTES.

In this Catalogue each book is indexed in its proper class under the author's name, or under the subject, or the name of a particular Structure, Waterway, Corporation, Municipality or State.

Under "Municipal Reports" (O) are classed many reports which are so general or inclusive that they cannot be placed in special classes; cross references to them, however, are given under the subjects they cover.

When the number precedes the title, the book has been placed in the class where it appears; when the class letter and number come after the title, part of a volume of bound pamphlets classed elsewhere is indicated. When the reference letter and number are enclosed in parentheses and preceded by the word "See" the entry is a cross-reference to the contents of a book indexed elsewhere.

ABBREVIATIONS USED.

anon. . . .	anonymous.
apx. . . .	appendix.
b. p. . . .	bound pamphlet.
bds. . . .	boards.
cf.	calf.
cl. . . .	cloth.
comp. . . .	compiled or compiler.
Cong. . .	Congress.
cor. . . .	corrected.
doc. . . .	document.
ed.	edition or editor.
enl. . . .	enlarged.
ex.	executive.
facsim. . .	facsimile.
fr.	from.
il.	illustrated.
imp. . . .	improved.
misc. . .	miscellaneous.
mor. . . .	morocco.
mus. . . .	muslin.
No. . . .	number.
p.	page.
pp.	pages.
pap. . . .	paper.
phot. . . .	photograph.
pl.	plate or plates.
por.	portrait or portraits.
pref. . . .	prefatory.
pseud. . . .	pseudonym.
Pt.. . . .	Part.
pub.	publisher.
rep. . . .	report.
rev.	revised.
ro.	roan.
rus.	russia.
sh.	sheep.
skiv. . . .	skiver.
Sec. . . .	Section.
Ser.	Series.
Sess. . . .	Session.
tab.	table or tables.
tr.	translated.
v.	volume or volumes.
vel. . . .	vellum.
vs.	*versus.*

AMERICAN SOCIETY OF CIVIL ENGINEERS.

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RAILROADS.

RAILROADS—GENERAL.

Aa

17 **ADAMS, C. F., Jr.** Government and the railroad corporation. Bost., 1871. 33 pp., 9 x 6, pap.

14 ——Railroad problem: A lecture. N. Y., 1875. 19 pp., 8 x 5, pap.

——Speech on behalf of the Massachusetts Board of Railroad Commissioners, made before the Joint Standing Legislative Committee on Railways, Feb. 14th, 1873. Note: Relates to the subject of state ownership of railroads. Bost., 1873. 39 pp., 9 x 6, b. p. Ab-7, p. 47.

AMERICAN RAILROAD JOURNAL AND ADVOCATE OF INTERNAL IMprovements; 1832-67 (v. 1-40). (See Ta3-53.)

44 **AMERICAN RAILROAD MANUAL FOR THE UNITED STATES AND THE** Dominion (Canada), containing full particulars of the mileage, capital stock, bonded debt, equipment, earnings, expenses and other statistics of railroads, as now built and in process of construction; comp. and ed. by Edward Vernon; 1873. N. Y., 1873. 1 v., map in pocket, 11 x 7, cl.

AMERICAN RAILWAY ASSOCIATION. Proceedings. (See Sa3-88.1.)

22 **AMERICAN RAILWAY OFFICIALS' ANNUAL:** Information for the use of all interested in the management, construction and operation of American railways. Chic., 1872. 1 v., il., 10 x 6, cl.

62 **AMERICAN RAILWAY OFFICIALS' MANUAL:** A book containing valuable information for railway superintendents, master mechanics and civil engineers. Chic., 1871. 1v., 9 x 12, cl.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS. Proceedings. (See Sa3-41.1.)

AMERICAN TRAIN DISPATCHERS' ASSOCIATION. Proceedings of the annual meeting. (See Sa3-153.1.)

32 **ARGOLLO, M. de T. e.** Informação prestada ao Ministro e Secretario d'Estado dos Negocios da Industria, Viação e Obras Publicas do Brazil sobre o arrendamento das estradas de ferro pertencentes a União. Bahia, 1896. 96 pp., tab., 9 x 6, pap.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDings. Proceedings of the annual convention. (See Sa3-45.1.)

AUCOC, LEON. Les tarifs des chemins de fer et l'autorité de l'état. 1880. (See Ae-170.)

3 **BADNALL, RICHARD.** Treatise on railroad improvement; explanatory of the chief difficulties and inconveniences which at present attend the general adoption of railways, and the means by which these objections may be overcome; to which are added various remarks on the operation and effect of locomotive power. Lond., 1833. 8 + 142 pp., 9 x 5, b. p.

BECKER, MAX. Der Strassen- und Eisenbahnbau in seinem ganzen Umfange und mit besonderer Rücksicht auf die neuesten Constructionen. 1858. (See V-45, v. 3.)

Aa—(*Continued*).

8 **BELL, WILLIAM**, comp. Statement of facts concerning narrow-gauge railways. N. Y., 1871. 60 pp., 7 x 4, pap.

18 **BERG, W. G.**, comp. and ed. American railway bridges and buildings: Official reports, Association, Railway Superintendents, Bridges and Buildings. Chic., 1898. 706 pp., il., 9 x 6, cl.

33 **BRANNER, J. C.** Railways of Brazil: A statistical article. Chic., 1887. 26 pp., pl., maps, 9 x 6, pap.

28 **CAMARA, J. E.** Chemins de fer de la Province de St. Paul, Brésil: données techniques et statistiques. Rio de Janeiro, 1875. 118 pp., map, tab., 9 x 6, pap.

30 **CERCLE DES CHEMINS DE FER.** Annuaire de 1865. Paris, 1865. 84 pp., 6 x 5, pap.

31 **CHEMINS DE FER DE L'ÉTAT BELGE.** Statistiques. no place, 1869. 2 pp., 11 x 8, pap. no title-page. manuscript.

COMMITTEE OF LOCOMOTIVE AND CARRIAGE SUPERINTENDENTS FOR India. General directory and railway list. (See Se-3. 2.)

55 **CORTIO, J. J.**, comp. Treatise on the South American railways and the great international lines; sent to the World's Exhibition of Chicago by the Ministry of Foment of the Oriental Republic of Uruguay. Note: English translation and Spanish original in same volume. Montevideo, 1893. 601 pp., 15 pl., 11 x 8, pap.

CRANE, EDWARD. Abstract of an address on the subject of transportation, at the State House, Feb. 13th, 14th and 18th, 1868. Bost., 1868. 40 pp., 9 x 6, b. p. Aj-3, p. 109.

37 **DANIELS, G. H.** American railroads; their relation to commercial, industrial and agricultural interests. (Four-track Ser., No. 26.) no place, 1899. 24 pp., 8 x 4, pap.

23 **DEMPSEY, G. D.** Practical railway engineer: A concise description of the engineering and mechanical operations and structures which are combined in the formation of railways for public traffic; embracing an account of the principal works executed in the construction of railways to the present time. ed. 4, rev. Lond., 1855. 428 + 44 pp., por., 71 pl., 11 x 9, pap.

DORSEY, E. B. English and American railroads compared; supplementary paper. 1886. (See Ae-238.)

——English and American railroads compared; with discussion by W. W. Evans, Thomas C. Clarke and Edward P. North. 1887. (See Ae-297.)

2 **EARLE, THOMAS.** Treatise on railroads and internal communications; with original suggestions and remarks. Phil., 1830. 120 pp., il., pl., 9 x 5, bds.

58 **EASON, CHARLES, Jr.** Manual of financial, railway, agricultural and other statistics; for politicians, economists and investors. Lond., 1884 (?) 91 + 1 pp., 7 x 5, pap.

43 **FAIRBAIRN, HENRY.** Treatise on the political economy of railroads; in which the new mode of locomotion is considered in its influence upon the affairs of nations. Lond., 1836. 248 pp., 9 x 6, bds.

FEW REASONS IN FAVOR OF THE RESTORATION OF THE ORIGINAL policy of the general government in relation to railroads. N. Y., 1857. 55 pp., 8 x 5, b. p. Ae-1, p. 707.

40 **FLEMING, HOWARD.** Narrow-gauge railways in America: A sketch of their rise, progress and success; valuable statistics as to grades, curves, weight of rail, locomotives, cars, etc.; also a directory of narrow-gauge railways. ed. 2. Lancaster, Pa., 1896. 104 pp., pl., 9 x 6, bds.

FRANCE—ÉCOLE DES PONTS ET CHAUSSÉES. Collection de dessins distribués aux élèves: Chemins de fer. 1875. (See Ye-243, v. 1., ser. 4.)

41 **FRANQUEVILLE, CHARLES DE.** Du régime des travaux publics en Angleterre. ed. 2. Paris, 1875. 3 v., map, 9 x 5, pap.

63 ——Eisenbahn-Konkurrenz und Eisenbahn-Fusionen in England; tr. by Victor Wilke; ed. by Wilhelm v. Nördling. Wien, 1875. 10 + 75 pp., map, 10 x 7, bds.

38 ——L'état et les chemins de fer en Angleterre: Lettre adressée à M. le Président de la Commission des Annales des Ponts et Chaussées. Paris, 1880. 32 pp., 8 x 5, pap.

1 **GALTON, DOUGLAS.** Report, to the Lords of the Committee of Privy Council for Trade and Foreign Plantations, on the railways of the United States; and supplement. Lond., 1857-58. 2 v., pl., map, 13 x 8, pap.

GENERAL RAILROAD ASSOCIATION. Journal of the proceedings of the convention held at Springfield, Aug. 24th and 25th, 1852. New Haven, 1852. 24 pp., 9 x 6, b. p. Ad-4, p. 67.

——Same; Nov. 23d, 1854. Newark, 1855. 32 pp., 9 x 6, b. p. Af-5, p. 173.

GENERAL RAILROAD ASSOCIATION OF THE EASTERN, MIDDLE AND WESTern States. Proceedings: also of the General Ticket Agents' Association, convened at the Monongahela House, Pittsburg, Mar. 13th, 1855. Phil., 1855. 24 pp., 9 x 6, b. p. Ae-1, p. 783.

Aa—(*Continued*).

67 **GIFFEN, ROBERT.** American railways as investments. ed. 6. (Cracroft's Investment Tracts.) Lond., 1873. 68 pp., 9 x 6, pap.

69 **GOERING, A.** Ueber die verschiedenen Formen und Zwecke des Eisenbahnwesens: Rede zum Geburtsfeste seiner Majestät des Kaisers und Königs Wilhelm II. in der Aula der Königlichen Technischen Hochschule zu Berlin am 26, Januar, 1899. Ber., 1899. 21 pp., 10 x 8, pap.

GREAT BRITAIN—PATENT OFFICE. Abridgments of specifications relating to railways, A. D., 1770-1863. 1868. (See Yk-13.)

36 **HASSLER, C. W.** Railroad rings and their relation to the railroad question in this country. N. Y., 1876. 29 pp., 9 x 6, pap.

42 **HIGINBOTHAM, THOMAS.** Report of observations on railways, made during a tour in 1874 and 1875, undertaken by direction of the Government of Victoria. Melbourne, 1876. 72 pp., 13 x 8, pap.

34 **HORNISH, J. K.** Narrow-gauge railroads. N. Y., 1875. 26 pp., 6 x 3, pap.

INTERNATIONAL RAILWAY CONGRESS. Bulletin. (See Sa3-148.2.)

——Journal. (See Sa3-148.1.)

JEFFERDS, M. R., comp. Chart showing the railway mileage, area, density of population, increase of railways since 1881, and the adequate railway service required for the principal countries of the world as compared with Belgium; also diagrams showing the influence of increased wagon and train loads on the working expenses of some of the principal railways. 1892. (See Ae-239.)

JOHNSON, E. F. Gauge of railroads: Reply to E. H. Brodhead. Janesville, Wis., 1853. 8 pp., 9 x 6, b. p. Ad-4, p. 113.

24 **JOHNSON, F. R.** Practical hints for light railways at home and abroad. Lond., 1896. 31 pp., 6 pl., 7 x 5, cl.

JOINT EXECUTIVE COMMITTEE. Proceedings. (See Sa3-151.1.)

6 **KEEFER, T. C.** Philosophy of railroads. ed. 4, rev. Montreal, 1853. 47 pp., 9 x 6, pap.

12 **KEITH, S. N.** Narrow gauge for the] Rhode Island & Massachusetts R. R. no place, no date. 11 pp., 8 x 6, pap. no title page.

16 **KIRKMAN, M. M.** Railway taxation. no place, no date. 18 pp., 7 x 5, pap. no title page.

10 **KIRKWOOD, J. P.** Report on gauge of track, to Board of Directors of Pacific R. R., Mo., June 27th, 1851. St. Louis, 1851. 16 pp., 9 x 6, pap.

45 **KOHN, IGNAZ.** Eisenbahn-Jahrbuch der österreichisch-ungarischen Monarchie; 8th. Wien, 1875. 1 v., 9 x 6, bds.

68 **KUPKA, P. F.** Amerikanische Eisenbahnen. Wien, 1877. 108 pp., 9 x 6, pap.

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1 **ALBANY & SUSQUEHANNA R. R.** Address to the citizens of Albany and some considerations respecting the proposed construction of the A. & S. R. R., Jan. 1852. Albany, 1852. 24 pp., 9 x 7, b. p.

——Map. A. Fischer. 1854. (See Qf-382.)

——Map showing the position of the A. & S. R. R. in relation to the other railroads of the States of New York, Pennsylvania and Massachusetts, etc. 1854. (See Qf-383.)

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48 ——Chemin de Fer de l'Arlberg. Ernest Pontzen. no place, no date. 16 pp., map, 9 x 6, pap. no title-page.

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452 ——Profile; comp. in the office of the Chief Engineer. Topeka, 1884. scale 400 ft. to 1 in.

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CHEMIN DE FER D'ORLÉANS. Partie comprise entre Lorient et Quimper sur une longueur de 66 kilomètres; plan et profile généraux. no place, no date. Map, 12 x 37, b. p. Scales: horizontal, 1 : 80 000; vertical, 1 : 2 000. Dc-650, p. 175.

——Partie comprise entre Quimper et Landerneau sur une longueur de 83 kilomètres; plan général. Paris, no date. map, 12 x 30, b. p. Scale, 1 : 80 000. Dc-650, p. 181.

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55 ——Geological report upon the iron ore, coal and other mineral deposits, found along the line of the C. & O. R. R. T. S. Ridgway. N. Y., 1872. 24 pp., 10 x 7, pap.

49 ——Its advantages as a through passenger and freight route between the sea-board and the West; together with information concerning the agricultural, mineral and mechanical resources, the remarkable coal and ore deposits, etc. Fisk & Hatch. N. Y., 1873. 68 + 3 pp., 9 x 6, pap.

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346 ——Over the Cincinnati Southern to the Annual Convention of the American Society of Civil Engineers, on Lookout Mountain, Tennessee, May 20th, 1891. no place, 1891. 16 pp., map, 10 x 6, pap.

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380 **DANDRIDGE, P. P.** Report upon the proposed railway from Pittsburgh, Pa., to the James River Valley in Virginia. no place, 1881 (?). 16 pp., map, 12 x 9, pap.

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443 ——Profile. N. Y., 1874. Scales: horizontal, 4 miles to 1 in.; vertical, 400 ft. to 1 in.

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269 ——Venezuela Central Railway and its sources of traffic. G. E. Church. Lond., 1888. 35 pp., 10 x 6, pap.

163 **FERROCARRIL DE ACJUTLA A SANTA ANA.** Contestacion al informe del . . . A. J. Scherzer, sobre los ferrocarriles de Acajutla á Santa Ana. A. van Severen and Rafael Arbizu. San Salvador, 1888. 14 pp., 8 x 6, pap.

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391 **FERROCARRIL DEL CAUCA.** Ferrocarril del Cauca, United States of Columbia; report on the project to construct a railway from the Bay of Buenaventura, upon the Pacific Ocean and the river of Cauca. F. J. Cisneros. N. Y., 1878. 92 pp., map, 9 x 6, cl.

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442 **FERROVIA SUCCURSALE DEI GIOVI.** Linee di completamento della rete ferroviaria del regno Ferrovia Succursale dei Giovi; album delle opere principali. Genova, 1883. pl., 19 x 13, cl.

FRANCE. Carte des chemins de fer de la France au 31 Décembre, 1880. R. Hausermann. 1888. (See Qf-438.)

317 **FRANKLIN & KENNEBEC R. R.** Report of the examinations and surveys for a railroad route for the F. & K. R. R. F. W. Lander. Farmington, no date. 8 pp., 9 x 6, pap.

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28 **BEANS, E. W.** Treatise on railway curves and location. Phil., 1872. 56 pp., pl., 7 x 5, mor.

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353 **CLARK, J. M.** New system of laying out railway turn-outs instantly by inspection from tables. N. Y., 1894. 38 pp., pl., 7 x 4, cl.

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428 **EMPERGER, F. VON.** Die Kurvenweiche: eine neue Methode ihrer Berechnung. Wien, 1889. 27 pp., pl., 9 x 6, pap.

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NEW JERSEY RAILROAD & TRANSPORTATION CO. Circular to the stockholders, exhibiting the past operations, present situation and future prospects of the company; prepared by order of the Board of Directors. Newark, 1833. 23 pp., 9 x 5, b. p. Ac-139, p. 337.

292 **NEW ORLEANS.** New Orleans Belt Railroad; Union depot and Bridge: report; and report of B. M. Harrod; with other papers, January, 1890. E. L. Corthell. New Orleans, 1890. 35 pp., 9 x 6, pap.

82 **NEW ORLEANS & OHIO AIR-LINE R. R.** Report on the surveys, estimates, and income of the N. O. & O. A.-L. R. R., to the Commissioners; with an appendix of charters. J. J. Williams. Cin., 1868. 43 pp., map, 9 x 6, pap.

NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R. Map exhibiting the fixed location of the main trunk of the N. O., O. & G. W. R. R. of Louisiana; together with its proposed branches, connections and extensions. G. W. R. Bayley. 1859. (See Qf-381.)

——Report (1st) of the President and Directors to the Stockholders. 1853. (See Ag-7, p. 569).

408 **NEW YORK STATE.** The canal question: A criticism of the State railway project. E. P. North. N. Y., 1899. Newspaper slips.

——Colton's new railroad and township map of the state of New York; with parts of adjoining states, and Canada. 1856-57. (See Qf-444.)

194 ——Report of the Commissioners appointed under the act of April 15th, 1828, relative to the construction of a railroad from the city of Boston to the Hudson River. No place, 1829. 64 pp., tab., 9 x 6, pap. (Senate, No. 113, 1829.)

NEW YORK & ALBANY R. R. Facts and suggestions relating to the N. Y. & A. R. R., with the proceedings of the railroad meeting in Canaan, N. Y., Feb. 3d, 1835; including the reports of the Berkshire delegation, and of Richard P. Morgan. Albany, 1835. 35 pp., map, 9 x 6, b. p. Cfh-12, p. 841.

——Memorial of the President transmitting the statement of E. F. Johnson, relative to the comparative merits of their route and the river route. (N. Y. Assembly, No. 87.) Albany, 1843. 11 pp., 9 x 6, b. p. Cfh-37, p. 957.

202 ——Report and estimated cost, made from preliminary surveys. C. W. Wentz. Albany, 1867. 41 pp., 9 x 6, pap.

79 ——Remarks relative to the auction business, duties, etc., and the N. Y. & A. R. R. to advance the prosperity of the city of New York. A. G. Thompson. N. Y., 1841. 8 pp., 8 x 5, pap.

——Report of the Chief Engineer of the N. Y. & A. R. R. E. F. Johnson. N. Y., 1839. 24 pp., 9 x 5, b. p. Ad-197, p. 221.

——Report on the communication of the Mayor relative to the N. Y. & A. R. R. New York (City) Joint Special Committee on New York and Albany R. R. no place, 1840. pp. 109-156, 8 x 5, b. p. (New York City, doc. No. 10.) Cfh-74, p. 459.

225 **NEW YORK & BOSTON INLAND R. R.** Prospectus. unpaged, map, 10 x 8, pap. no title-page.

88 **NEW YORK & BOSTON R. R.** Report to the Central Committee of the N. Y. & B. R. R. Co. E. F. Johnson. Middleton, Conn., 1847. 64 pp., maps, 9 x 6, pap.

NEW YORK & CROTON RIVER EXTENSION R. R. Map and profile of located line of the N. Y. & C. R. E. R. R.; also of the New York, Westchester & Boston Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no date. (See Qf-315.)

Ab—(*Continued*).

NEW YORK & ERIE R. R. Address to the people of the state of New York. N. Y., 1837. 30 pp., 8 x 5, b. p. Af-2, p. 461.

——Address to the stockholders and the public in relation to the report of the Commissioners appointed by the Legislature of the state of New York to locate certain portions of the railroad. N. Y., 1847. 20 pp., 8 x 5, b. p. Af-2, p. 601.

——Petition in relation to the different lines that have been surveyed in Sullivan and Broome Counties for the location of their road. no place, 1842. 17 pp., 9 x 6, b. p. no title-page. Ag-98, p. 700.

——Petition to the Legislature of the state of New York for their consent, to the end that they may connect their road with a continuation of the line thereof into the state of Pennsylvania, in the counties of Susquehanna and Pike. no place, no date. 12 pp., map, 8 x 5, b. p. Ag-1, p. 39.

338 ——Report in regard to the western extension of the N. Y. & E. R. R. C. L. Ward. Note: Report of the Chairman of a committee composed of delegates from the Erie & New York City R. R. Co., the Pittsburg & Erie Co., and the Atlantic & Great Western R. R. Co., assembled to formulate plans for combining and completing a trunk line of railway, from New York to St. Louis, and eventually to the Pacific Coast. N. Y., 1856. 8 pp., 9 x 6, pap.

——Report of a survey of a route for a railroad from the city of New York to Lake Erie; transmitted to the New York Assembly by the Secretary of State. Benjamin Wright. Albany, 1835. 99 pp., 9 x 6, b. p. no title-page. Cfh-10, p. 307.

——Report of the Commissioners appointed by the act of May 11th, 1846, to locate certain portions of the N. Y. & E. R. R.; made to the Legislature Jan. 14th, 1847. N. Y., 1847. 41 pp., maps, 8 x 5, b. p. Ah-23, p. 753.

——Report of the Minority of the Commissioners appointed to locate certain parts of the N. Y. & E. R. R., made to the Assembly. Albany, 1847. 35 pp., 8 x 5, b. p. Ag-282, p. 209.

——Reports on the surveys, estimates, and revenues of the Ligett's Gap Railroad connecting the Lackawanna coal basin with the N. Y. & E. R. R. at Great Bend, to the President and Directors. W. H. Morell. Ithaca, N. Y., 1849. 48 pp., tab., 8 x 5, b. p. Af-2, p. 1159.

——Sketch of the geographical route of a great railway by which it is proposed to connect the canals and navigable waters of New York, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Missouri, and the adjacent states and territories. N. Y., 1830. ed. 2, with additions. 48 pp., map, 8 x 5, b. p. Af-2, p. 181.

——Termination at Piermont. 7 pp., 9 x 5, b. p. no title-page. Af-216, p. 231.

NEW YORK & HARLEM R. R. Exposition of the advantages of a railroad between New York and Albany on the interior route. Allan Campbell. N. Y., 1847. 31 + 1 pp., tab., 8 x 5, b. p. Ah-23, p. 561.

——Map showing the route of the Harlem Railroad between New York and Albany and its connection with eastern and northern railroads. 1847. (See Qf-448.)

——Reply of the Chief Engineer of the N. Y. & H. R. R. to a statement in relation to the two routes for a railroad between New York and Albany published March 2d, 1846. Allan Campbell. no place, 1846. 1 p., 13 x 10, b. p. Ah-23, p. 815.

NEW YORK & NORFOLK R. R. North and south air-line railroad from New York and Philadelphia to Norfolk, Va. May 31st, 1854. William Torrey, J. P. Allaire and W. E. Timmons. N. Y., 1854. 8 pp., 9 x 6, b. p. Ag-5, p. 567.

——Report of the N. Y. & N. air-line railroad, Sept., 1854. Charles Gould and others. N. Y., 1854. 8 pp., 9 x 6, b. p. Ag-5, p. 575.

206 NEW YORK & OSWEGO MIDLAND R. R. Report of the Chief Engineer of the N. Y. & O. M. R. R. to the Board of Directors. A. C. Powell. Norwich, N. Y., 1867. 16 pp., 8 x 5, pap.

NEW YORK CENTRAL & HUDSON RIVER R. R. Railroad map of the New York Central lines, embracing, in their through car lines, the N. Y. C. & H. R., Michigan Central, Lake Shore & Michigan Southern, C. C., C. & St. L. (Big Four), Boston & Albany, Pittsburg & Lake Erie. 1899. (See Qf-443.)

266 NEW YORK, HOUSATONIC & NORTHERN R. R. Prospectus: embracing a brief review of the general history of railroads in the state of New York, and the prospects of the proposed road viewed in the light thereof; together with a condensed report and estimates of the engineer. N. Y., 1864. 49 pp., maps, 9 x 6, pap.

87 ——Prospectus; together with a condensed report and estimates of the engineer. N. Y., 1864. 49 pp., map, 9 x 6, pap.

378 NEW YORK, PENNSYLVANIA & OHIO R. R. Profiles, maps, and alignment of main tracks, yards, switches and side tracks of the N. Y., P. & O. R. R. and its branch lines; together with information referring to bridges, water supply, railroad and road crossings, culverts, grades and curves; also locations and lengths of divisions, subdivisions, and sections, made under the direction of Charles Latimer, Chief Engineer. Arthur Cobb. Cleveland, 1883. pl., maps, 14 x 11, ¾ ro.

Ab—(*Continued*).

221 **NEW YORK, WEST SHORE & BUFFALO RY.** New double-track, low-grade, direct trunk line between New York City, the Great Lakes and the West. N. Y., 1883. 29 pp., map, 9 x 6, pap.

NEW YORK, WEST SHORE & CHICAGO R. R. Report of the Engineer-in-Chief, May, 1871. (See Ag-111.)

NEW YORK, WESTCHESTER & BOSTON RY. Map and profile of located line of the New York & Croton River Extension R. R.; also of the N. Y., W. & B. Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no date. (See Qf-315.)

NEWPORT NEWS & MISSISSIPPI VALLEY R. R. System of railway lines, railroad and steamship connections. 1887. (See Qf-445.)

151 **NORRISTOWN & FREEMANSBURG R. R.** Report of the Chief Engineer of the N. & F. R. R. Co.; together with the supplement to the act of Assembly incorporating said company. L. E. Corson. Norristown, Pa., 1853. 24 pp., 9 x 6, pap.

208 **NORTH MISSOURI R. R.** Report on the present state and prospects of the N. M. R. R.; upon examinations made for Jay Cooke & Co., June, 1866. W. M. Roberts. Phil., 1866. 54 pp., map, 9 x 6, pap.

NORTH PENNSYLVANIA R. R., and its connections. 1853. (See Qf-440.)

148 ——Philadelphia's great north route, to connect Philadelphia with north Pennsylvania, western New York, the Lakes, and Canada West. Phil., 1853. 48 pp., map, 9 x 6, pap.

345 ——Profiles of the canals and railroads for transporting anthracite coal from the several coal fields to the city of New York. J. D. Steele. Phil., 1857. pl., 30 x 26, pap.

76 **NORTH SHORE RY. OF CANADA.** Return to an address of the Legislative Assembly praying for copies of all reports which have not yet been submitted to this House, since Mar. 1st, '78, on the location of the N. S. Ry., containing reports made by P. A. Peterson to Q., M., O. & O. Ry. Commrs. on the propriety of changing the Terrebonne location of the N. S. Ry. back to the original or Bout de l'Isle route. Review of W. Shanley's report on the "rival routes" of the N. S. Ry. by P. A. Peterson . . . and appx. Canada-Provincial Secretary. Quebec, 1880. 24 pp., pl., maps, 10 x 7, pap.

NORTH SIMCOE RY. Map of the N. S. Ry. and its connections. no date. See Qf-446.)

NORTHEAST & SOUTHWEST ALABAMA R. R. Report upon the survey, location, and probable cost of the N. E. & S. W. A. R. R., made to the President and Directory. E. D. Sanford. Tuscaloosa, Ala., 1855. 32 pp., 9 x 6, b. p. Ah-26, p. 761.

NORTHERN CENTRAL RY. Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. 1883. (See Af-263.)

——Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said court; paper-book of Appellant. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. 1883. (See Af-183.)

10 **NORTHERN INDIANA R. R.** Circular statement of the condition and prospects of the N. I. R. R. N. Y., 1851. 18 pp., map, 8 x 5, b. p.

8 ——Report on the Michigan Southern and Northern Indiana Railroads. J. B. Jervis. N. Y., 1850. 20 pp., map, 9 x 6, b. p.

495 **NORTHERN PACIFIC R. R.** Major-General Hazen on his post of duty in the Great American Desert, reviewed by an ex-Surveyor-General. Note: A reply to a letter written by Gen. Hazen, published in the *New York Tribune*, in which he asserted that the country through which the N. P. R. R. would pass was sterile and worthless. N. Y., 1874. 32 pp., 9 x 6, pap.

——Map of the country tributary to the N. P. R. R.; comp. fr. English, Canadian and American official sources and original surveys. E. H. Knight. 1871. (See Qf-451.)

——Map of the N. P. R. R., its branches and allied lines. no date. (See Qf-447.)

80 ——Memorial of the Board of Directors, Nov., 1867. Note: Petitions Congress for financial assistance. Hartford, 1867. 16 pp., 9 x 6, b. p.

86 ——Its route, resources, progress and business; the new Northwest and its great thoroughfare. Jay Cooke & Co. Phil., no date. 47 pp., 9 x 6, pap.

23 ——Railroad to the Pacific; northern route; its general character, relative merits, etc. E. F. Johnson. N. Y., 1854. ed. 2. 174 pp., pl., map, 9 x 6, ¾ cf.

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84 ——Report of a Special Committee on the N. P. R. R., March 26th, 1868. New York Chamber of Commerce. N. Y., 1868. 55 pp., map, 9 x 6, pap.

88 ——Report of Special Committee on the construction of the N. P. R. R. and telegraph line. (Legislature, 1867. House doc., No. 3.) no place, 1867. 16 pp., 9 x 6, pap.

81 ——Report of the Chief Engineer on the unfinished portion of the N. P. R. R., made to the President of the Company, April 27th, 1874. W. M. Roberts. N. Y., 1874. 14 pp., map, 9 x 6, pap.

80 ——Report of the Engineer-in-Chief to the Board of Directors of the N. P. R. R. Co. Nov., 1867. E. F. Johnson. Hartford, 1867. 56 pp., map, 9 x 6, b. p.

272 ——Report of the Secretary, Jefferson Davis, communicating copies of all reports of the engineers and other persons employed to make explorations and surveys to ascertain the most practical and economical route for a railroad from the Mississippi River to the Pacific Ocean. U. S.-War Dept. (33d Cong., 1st Sess., Senate, ex. doc. No. 29.) Wash., 1854. 118 pp., map, 9 x 6, pap.

85 ——Special report of a reconnoissance of the route for the N. P. R. R. between Lake Superior and Puget Sound *via* the Columbia River, made in 1869, under the direction of Jay Cooke & Co. W. M. Roberts. Phil., 1869. 51 pp., 9 x 6, pap.

186 ——Trans-continental railways of the United States; remarks at the railway convention held at Oswego, N. Y., Oct. 6th, 1870. E. F. Johnson. Hartford, 1871. 86 pp., 9 x 6, pap.

431 **NORTHERN PACIFIC RY.** Rules for railway location and construction of the N. P. Ry. Co. E. H. McHenry. N. Y., 1899. 74 pp., il., 6 x 4, cl.

200 **NORTHERN RY. & COAL CO.** Coal lands. N. Y., 1865. 30 pp., pl., map, 9 x 6, pap.

264 **NOVA SCOTIA, NICTAUX & ATLANTIC CENTRAL RY.** Report to the Provincial Secretary of Nova Scotia on the survey and proposed construction of the N. S., N. & A. C. Ry. Martin Murphy. no place, 1875. 12 pp., 10 x 6, pap. no title page.

8 **OAKLAND & OTTAWA R. R.** Description, character, cost, location and prospect of the O & O. R. R., from Detroit to Grand Haven. Robert Higham. Detroit, 1854. 17 + 3 pp., 9 x 6, b. p.

5 **OGDENSBURG & LAKE CHAMPLAIN R. R.** Report in relation to the O. & L. C. R. R. W. R. Casey. Albany, 1842. 23 pp., 9 x 6, b. p.

——Report of the Chief Engineer on the survey of a railroad from Ogdensburg to Lake Champlain. E. H. Brodhead. 1841. (See Ab-5, p. 375.)

5 ——Report of the Commissioners appointed to cause a survey to be made of the several routes for a railroad from Ogdensburg to Lake Champlain. Albany, 1841. 115 pp., map, 9 x 6, b. p.

3 ——Report of the New York State Committee on Railroads on the subject of bridging Lake Champlain at Rouse's Point, Jan. 28th, 1851. no place, 1851. 114 pp., map, 9 x 6, b. p.

3 ——Statement in regard to bridging Lake Champlain . . . . Gen. Davis' speech against a bridge, etc.; with an appendix. Troy, N. Y., 1851. 14 pp., 9 x 6, b. p.

OHIO. New map of the state of Ohio; exhibiting the sections, fractional sections, townships, cities, villages, post-offices, railroads, canals, turnpikes and plank roads. E. Mendenhall & Co., pub. 1853. (See Qf-452.)

——Railroad and township map of the state of Ohio. J. H. Colton, pub. 1854. (See Ag-6, p. 259.)

8 **OHIO & MISSISSIPPI R. R.** Geographical, geological and statistical relations of the O. & M. R. R. E. D. Mansfield. no place, no date. 32 pp., 9 x 6, b. p.

——Report and statistical documents pertaining to the O. & M. R. R., extending from Cincinnati to St. Louis. O. M. Mitchel. Cin., 1853. 30 pp., 9 x 6, b. p. Ah-28, p. 461.

OHIO & PENNSYLVANIA R. R. Exhibit of the affairs of the O. & P. R. R. Co. Pittsburg, 1850. 20 pp., map, 9 x 5, b. p. Ag-8, p. 46.

——Report of the Chief Engineer to the President and Directors; 1st-2d; 1849-50. (See Ag-8, pp. 67 and 112.)

OREGON. Indexed map, showing the railroads in the state. Rand, McNally & Co. 1879. (See Qf-449.)

2 **OSWEGO & UTICA R. R.** Report of the Chief Engineer to the Board of Directors, September, 1837. N. Y., 1837. 28 pp., map, 9 x 5, b. p.

184 **PACIFIC R. R.** Address to the Board of Directors of the P. R. R. Co., at their first meeting, January 31st, 1850; and also a memorial to Congress, and the act of incorporation. Thomas Allen. St. Louis, 1850. 45 pp., 8 x 5, pap.

279 ——Highway to the Pacific: grand national central highway; speech on introducing a bill for the construction of a grand national central highway from St. Louis to San Francisco, delivered in the Senate of the United States, Dec. 16th, 1850. T. H. Benton. no place, no date. 16 pp., 9 x 6, pap.

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——Letter upon the lands and minerals of southwest Missouri; Pacific Railroad, South-west Branch. G. C. Swallow. 8 pp., 9 x 5, b. p. no title-page. Af-217, p. 635.

——Statement relating to Southwest Branch, lands, bonds, etc. N. Y., 1857. 22 pp., 9 x 5, b. p. Af-217, p. 643.

PANAMA. Projecto de ferro-carril. George de Polignac. Note: From David, Costa Rica, to the city of Panama. no date. (See Qf-450.)

PANAMA R. R. Map of the Isthmus of Panama representing the line of the railroad, reduced and compiled from the original survey by the Crown Surveyor, Jamaica. 1857. (See Qf-462.)

3 ——Prospectus. N. Y., 1849. 62 pp., map, 9 x 6, b. p.

——Report relative to the "Memorial of William H. Aspinwall, John L. Stevens and Henry Chauncey, praying aid from the Government of the United States to construct a railroad across the Isthmus of Panama." (30th Cong., 2d Sess., House rep. No. 26.) no place, 1849. 46 pp., 9 x 6, b. p. Af-3, p. 17.

155 **PARANA & CORDOVA R. R.** Report on a survey for a line of railroad between the city of Cordova and some point on the River Parana, Argentine Confederation. Allan Campbell. Lond., 1857. 67 pp., map, 8 x 5, pap.

287 **PARIS, GEORGETOWN & FRANKFORT R. R.** Prospectus. 1881. Cambridge, 1881. 14 pp., 10 x 7, pap.

144 **PASADENA & MT. WILSON R. R.** Scenes on the line of the Pasadena Mountain Ry.; and from oranges to snow. J. G. W. James. Pasadena, Cal., 1898. unpaged, pl., 9 x 6, pap.

164 **PEEKSKILL & CARMEL R. R.** Report of Executive Committee having charge of the survey of the railway. Peekskill, N. Y., 1860. 15 pp., 9 x 6, pap.

90 **PENNSYLVANIA & WESTERN R. R.** Statement of the prospects, advantages, objects, conditions and workings of the company; 1873. Phil., 1873. 35 pp., pl., map, 9 x 6, pap.

PENNSYLVANIA R. R. Annual report of the Chief Engineer; 1st; 1848. (See Ag-9, p. 1.)

——Discussions before the Committee of the House and before the Committee of the Senate regarding sites for stations in Washington for the Pennsylvania and Baltimore & Ohio R. R. Cos., March, 1872. United States-(House) Committee on District of Columbia. no place, 1872. 20 pp., 8 x 5, b. p. Ae-2, p. 547.

363 ——Resurvey of the Williamsport Division of the Pennsylvania R. R. G. D. Snyder. Note: Type-written copy, accompanied by photographs. 16 + 4 pp., 5 pl., 5 phot., 14 x 8, pap. no title-page.

406 **PENNSYLVANIA, WILMINGTON & BALTIMORE R. R.** Garden farm lands of the Peninsula. Note: A guide-book to the country through which the railroad passes. no place, no date. 38 pp., il., map, 9 x 6, pap.

183 **PEORIA & HANNIBAL R. R.** Chief Engineer's report of the P. & H. R. R., containing the charter, ordinances, estimates, and condition of the road, the statistics of the country, and a map showing its location and connections. W. G. Wheaton. Peoria, Ill., 1858. 1 v., map, 9 x 6, pap.

PEORIA & OQUAWKA R. R. Report to the President and Directors of the P. & O. R. R. Co. R. P. Morgan. Burlington, 1852. 20 pp., 8 x 5, b. p. Ah-24, pp. 853.

153 **PHILADELPHIA.** Letters to Job R. Tyson on the railway connections of Philadelphia with the Central West. E. D. Mansfield. Phil., 1853. 36 pp., 9 x 6, pap.

97 **PHILADELPHIA & ATLANTIC CITY RY.** Prospectus. Phil., 1877. 25 pp., map, 9 x 6, pap.

PHILADELPHIA & COLUMBIA R. R. Report of the Superintendent of the railroad relative to the condition and progress of the work in 1829. (See Zj-169, p. 112.)

365 **PHILADELPHIA & POTTSVILLE R. R.** Sketch of a railway judiciously constructed between desirable points, exemplified by a map and an appendix of facts. Egbert Hedge. N. Y., 1841. 125 pp., maps, 9 x 6, cl.

116 **PHILADELPHIA & READING R. R.** Catalogue of specimens of the mineral and agricultural products from the line of the railroad, of rails, etc., manufactured at the P. & R. R. R. rolling-mill, and of models of bridges in use on the line; exhibited at the U. S. Centennial Exhibition, Philadelphia, 1876. Note: pp. 35-38 wanting. Phil., 1876. 44 pp., pl., 9 x 6, pap.

375 ——Reading railroad: Its advantages for the cheap transportation of coal as compared with the Schuylkill navigation and Lehigh Canal. X. Pseud. Nos. 1-8. Phil., 1839. 43 pp., map, 11 x 9, pap.

——Topographical plan and profile of the P. & R. R. R., with plates illustrating the bridges, stations, etc., on the line of the road. 1856(?). (See Qf-461.)

373 **PICTOU RY.** Report as to the extension of the railway from Truro to Pictou. James Laurie. Halifax, 1859. 40 pp., 11 x 9, pap. no title-page.

374 ——Report on surveys for the P. Ry., *via* Earltown; with some remarks on the trunk line. James Laurie. Halifax, 1860. 24 pp., map, 11 x 9, pap.

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409 **PITTSBURG RAILROAD & COAL CO.** Charter and amendments of the P. R. R. & C. Co.; together with a report on their coal lands and other property, and a plan of organization. St. Louis, 1864. 19 pp., 8 x 5, pap.

222 **PITTSBURGH & LAKE ERIE R. R.** Statement of the location and business prospects of the . . . railroad; with its connections and advantages. Pittsburg, 1876. 14 pp., map, 9 x 6, pap.

223 **PITTSBURGH EAST END R. R.** Prospectus, 1888. Pittsburg, 1888. 14 pp., map, 9 x 6.

204 **PLACERVILLE & SACRAMENTO VALLEY R. R.** Report on the survey, cost of construction, and estimated revenue of the P. & S. V. R. R. of California. F. A. Bishop. San Fran., 1863. 47 pp., 9 x 6, pap.

PORT HURON & LAKE MICHIGAN RY. Report on the P. H. & L. M. Ry. Walter Shanly. Toronto, 1854. 18 pp., map, 9 x 5, b. p. Af-8, p. 589.

311 **PORTSMOUTH & NEWBURYPORT R. R.** Report on the survey of the P. & N. R. R. Joshua Barney. Portsmouth, N. H., 1836. 12 pp., map, 8 x 5, pap.

145 **PORTUGAL.** Common roads, railways, and river communications. F. A. Pimental. Lisbon, 1898. 49 pp., 10 x 7, pap.

POTSDAM & WATERTOWN R. R. Exhibit; with a map showing its relations to other and connecting lines of railway; June 1st, 1854. N. Y., 1854. 16 pp., map, 9 x 6, b. p. Af-5, p. 263.

——Report of the surveys and estimates of the P. & W. R. R., made to the Committee, January 8th, 1852. E. H. Brodhead. Utica, N. Y., 1852. 59 pp., map, 9 x 6, b. p. Af-5, p. 279.

PROVIDENCE, R. I. Map showing the re-arrangement of the railroad stations and tracks in the city of Providence, proposed by the Commissioners of the Cove Lands, 1873. S. B. Cushing. (See Qf-453.)

307 **PROVIDENCE & BRISTOL R. R.** Report of the Committee appointed by the citizens of Providence, Warren and Bristol on the P. & B. R. R. A. D. Smith and others. Providence, 1852. 16 pp., 9 x 6, pap.

315 **PROVIDENCE & PLAINFIELD R. R.** Report on the surveys of the P. & P. R. R. James Laurie. Providence, 1848. 31 pp., map, tab., 9 x 6, pap.

27 **PROVIDENCE & WORCESTER R. R.** Report of the Commission of expert engineers on railroad terminal facilities. Providence, 1888. 17 + 1 pp., pl., map, 9 x 6, pap.

439 **PRUSSIA.** Normalien zu Vorarbeiten für Eisenbahnanlagen im Königreich Preussen. Ber., 1871. 2 pl., 58 x 26, pap.

——Post- und Eisenbahn-Karte von dem preussischen Staate und den angränzenden Ländern. 1865. (See Qf-262.)

3 **QUEBEC & RICHMOND RY.** Annual Report of the Chief Engineer to the Stockholders; presented 18th Jan., 1853. Quebec, 1853. 24 pp., 8 x 5, b. p.

96 **QUEBEC HARBOR COMMISSIONERS.** Quebec railway and harbor works. no place, 1879. 13 pp., map, 10 x 6, pap.

223 **QUEBEC, MONTREAL, OTTAWA & OCCIDENTAL RY.** Proposed railway ferry over the St. Lawrence, connecting the Q., M., O. & O., and the Intercolonial Railways. No. 2. Note: Drawing No. 1, wanting. sheet, 15 x 9, pap.

368 **QUEENSLAND, AUSTRALIA.** Queensland railways; Central and Northern Division, Clermont Railway, Section No. 2; plan, section, bridges, general drawings. Robert Ballard. no place, 1882 (?). unpaged, 12 x 10, cl.

379 **QUEENSLAND NORTHERN RY.** Plan and section, mountain track over main range, 49m. 40ch. to 56m. Robert Ballard. unpaged, 10 x 11, cl. no title-page.

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289 **ROCKFORD, ROCK ISLAND & ST. LOUIS R. R.** Prospectus. N. Y., 1868. 32 pp., 9 x 6, pap.

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207 **SAN FRANCISCO & ALAMEDA R. R.** Pacific terminus railroad; report of surveys for the extension of the S. F. & A. R. R. to connect with the Western Pacific R. R., and for a line from the San Jose to the Twelve Mile House in the Santa Clara Valley with a branch to the Quicksilver mine of New Almaden. E. A. Flint. Note: Maps and profiles accompanying report, wanting. San Fran., 1866. 24 pp., 9 x 6, pap.

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122 ——Letter on the location between Omaha City and Platte Valley. J. L. Williams. 5 pp., 9 x 6, pap. no title-page.

——Letter to citizens of Arkansas in relation to a Pacific railroad. 1857. J. S. Phelps. 16 pp., 9 x 5, b. p. no title-page. Af-217, p. 669.

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451 ——Reed's preliminary line: Echo Cañon-Maine Ravine. No place, 1864. no scale given.

129 ——Reply to the communication of the Committee of citizens of Omaha to Lieut.-Col. Simpson, touching the location, terminus, etc., of the U. P. R. R. T. C. Durant. No place, 1865. 23 pp., 9 x 6, pap. no title-page.

128 ——Reply to the letter of C. P. Huntington to the Committee of the Senate on the Pacific R. R.; also affidavits of engineers of the U. P. R. R. Co. in regard to certain surveys. Oliver Ames. various pagings, 9 x 6, pap. no title-page.

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122 ——Report of exploration from Camp Walbach to Green River, for the U. P. R. R. J. A. Evans. Montrose, Pa., 1865. 24 pp., 9 x 6, pap. no title-page.

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118 **NORFOLK & WESTERN R. R.** Forms used in keeping account of work done by contractors. 10 sheets, various sizes, pap. no title-page.

31 **NORTH MISSOURI R. R.** Form of contract and specifications. no place, 1866. 33 pp., 9 x 6, pap.

28 **NORTH SIMCOE RY.** Return of correspondence and papers relating to the N. S. Ry. Ontario-Provincial Secretary. Toronto, 1875. 13 pp., 10 x 7, pap.

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164 **NORWAY.** Types of constructions on the Norwegian railways of 3 ft. 6 ins. gauge. no place, 1878. 9 pp., 36 x 15, pap.

165 **NOVA SCOTIA RY.** Report on the N. S. Ry.: Its present condition and probable cost, February 5th, 1858. Note: Report made to the Provincial Secretary of Nova Scotia. James Laurie. Halifax, 1858. 55 pp., 12 x 8, pap.

201 **OESTERR, STAATS-EISENBAHN-GESELLSCHAFT.** Normalien für Eisenbahnbau der k. k. pr. ö. Staats-Eisenbahn-Gesellschaft, verfasst bei der Baudirection unter der Leitung des Baudirectors A. de Serres. Wien, 1875. pl., 17 x 14, cl.

51 **OHIO & MISSISSIPPI R. R.** Report upon the plan followed in changing the gauge of the O. & M. Ry. and the expense attending said change; made to the Chief Engineer of the Atlantic & Great Western Railroad. J. M. Goodwin. Cleveland, 1873. 27 pp., 10 x 8, pap.

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91 **PENNSYLVANIA R. R.** Construction contract. 4 pp., 14 x 8, pap. no title-page.

93 ——Specifications for grubbing and clearing. 2 pp., 14 x 8, pap. no title-page.

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135 **PERU.** Railway construction on the Peruvian Andes. J. R. Maxwell. no place, 1895. 14 pp., il., 9 x 6, pap. no title-page.

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110 **PHILADELPHIA & READING TERMINAL R. R.** Full text of the ordinance; President Corbin's letter; opinion of City Solicitor; address of George R. Kaercher; impossibility of an underground road; Reading freight traffic; costs of elevation; opinions of the press; petitions and signatures. Phil., 1898. 112 pp., 9 x 6, pap.

105 **RHEINISCHE EISENBAHN.** Anweisung über die Verwendung eiserner Querschwellen. ed. 2. Köln, 1878. 10 pp., 7 x 5, pap.

104 ——Instructions for the use of iron cross-ties. Cologne, 1878. ed. 2. 12 pp., 8 x 5, pap. manuscript.

11 ——Zusammenstellung der Hauptmasse der Weichen Caliber 3 des Normalquerprofils der Bahn, der Normal-Geleisdistanzen, sowie der Locomotiven und Wagen, etc., in Metermass. Köln, 1873. 1 p., 17 x 45, pap.

204 **RIASHK-VIASMA R. R.** Album of drawings of the R.-V. R. R. Note: Title and text in Russian. no place, no date. unpaged, pl., 27 x 20, mor.

ST. LAWRENCE & ATLANTIC R. R. Report on the gauge for the St. L. & A. R. R. A. C. Morton. Montreal, 1847. 79 pp., 8 x 5, b. p. Ad-1, p. 452.

175 **SCALETTABAHN.** Die Scalettabahn Graubünder Adhäsionsbahn von Landquart über Davos, Samaden, and Maloja nach Chiavenna, mit 1 M. Spurweite, 45‰ Maximalsteigung, und 100 M. Minimalradien; Vortrag gehalten im Verein für Eisenbahnkunde in Berlin, am 14. Januar, 1890. Carl Wetzel. Berlin, 1890. 22 pp., il., 26 pl., map, 13 x 9, pap.

167 **SCHWEIZERISCHE NORDOSTBAHN-GESELLSCHAFT.** Bahnbau. Zürich, 1875. 2 tab., 20 x 17, pap.

——Bericht über die von der Abtheilung "Bahnbau" der Schweizerischen Nordostbahn-Gesellschaft. 1876. (See Ab-436.)

131 **SEATTLE, LAKE SHORE & EASTERN RY.** Contract and specifications for work on the S., L. S. & E. Ry. Seattle and Eastern Construction Company. Seattle, 18- . 7 + 7 pp., 14 x 8, pap.

106 **SOUTH PENNSYLVANIA R. R.** South Pennsylvania transit, Nov., 1885. v. 2. No. 1. Note: Obituary number, published by request. Humorous account of the failure of the S. P. R. R. Co. Somerset, Pa., 1885. 1 v., 9 x 6, pap.

181 **SPITZBERG TUNNEL.** Der Bau des Spitzbergtunnels auf der Pilsen-Eisensteinbahn. Alois Stane and Carl Pascher. Ber., 1878. 23 pp., il., 18 pl., 14 x 11, pap.

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86 **SWEDEN.** Swedish railways; technically and commercially. C. P. Sandberg. Lond., 1888. 4 pp., map, 14 x 10, pap.

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100 **TEHUANTEPEC SHIP RY.** Letters from leading engineers and naval architects as to the practicability of constructing and operating a ship railway. J. B. Eads, comp. St. Louis, 1882. 46 pp., 9 x 6, pap.

53 Review of the proposed T. S. Ry. S. L. Phelps. Note: Review of an article in *The North American Review*, March, 1881, entitled "The Isthmian Ship-railway," by Capt. J. B. Eads. no place, 1881. 75 pp., map, 9 x 6, pap.

38 Transportation of ships on railways. S. L. Phelps. Note: Argument to convince members of Congress of the impracticability of the T. S. Ry. Wash., 1881. 16 + 2 pp., 9 x 6, pap.

35 **TEXAS PACIFIC R. R.** Report made to the President and Executive Board of the T. P. R. R. G. P. Buell. N. Y., 1871. 24 pp., pl., 11 x 7, pap.

173 **THÜRINGISCHE EISENBAHN-GESELLSCHAFT.** Die Telegraphen-Anlagen von ihrer Entstehung bis zur Gegenwart. Erfurt, Germany, no date. 11 pp., 9 x 6, pap.

66 **TROY & GREENFIELD R. R. AND HOOSAC TUNNEL CO.** Address to the stockholders and friends of the T. & G. R. R. Co. Otis Clapp. Bost., 1855. 11 pp., 9 x 6, pap.

58 ——Answer to the inquiry, why do the contractors ask for more than the tunnel costs; also, a reply to recent editorials in the *Springfield Republican*; by H. Haupt. Note: Articles relating to the construction of the Hoosac Tunnel. Bost., 1859. 22 pp., 9 x 6. pap.

——Brief review of the onslaught of the Western Railroad (in the *Daily Advertiser*) upon the T. & G. R. R.; cost of the tunnel. Hoosac, pseud. no date. (See Af-142.)

67 ——Certificate. 1860. Note: Document attesting to the good character of the work done on a certain portion of the T. & G. R. R. A. R. Field. 2 pp., 9 x 5, pap.

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68 ——Communication to D. N. Carpenter, President of the T. & G. R. R. Co., in regard to the suspension of operations on the Hoosac Tunnel. Herman Haupt. no place, 1861. 21 pp., 9 x 6, pap.

81 ——Death of our Minotaur. Theseus, pseud. Note: Reply to the attacks made by F. W. Bird upon the management of the Hoosac Tunnel. Bost., 1868. 16 pp., 9 x 6, pap.

57 ——Facts and figures concerning the Hoosac Tunnel. H. Haupt. Bost., 1868. 16 pp., 9 x 6, pap. no title-page.

74 ——Facts and figures concerning the Hoosac Tunnel. J. J. Piper. Fitchburg, Mass., 1860. 54 pp., 9 x 6, pap.

60 ——Facts *vs.* Illusions: Being a reply to H. Haupt's latest misrepresentations relating to the T. & G. R. R. F. W. Bird. Bost., 1862. 14 pp., 9 x 6, pap.

61 ——Hoosac Tunnel. Note: Letter in the *Boston Daily Advertiser*, Oct. 21st, 1865. Progress, pseud. newspaper slip.

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268 **VERMONT CENTRAL R. R.** Letter to the Shareholders of the V. C. R. R. Josiah Quincy, Jr. Bost., 1852. 26 pp., 9 x 6, pap.

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236 **ALABAMA, FLORIDA & GEORGIA R. R.** Communication to the Committee on Public Lands, relative to the A., F. & G. R. R. J. G. Totten. (25th Cong., 3d Sess. House doc., 198.) Wash., 1839. 2 pp., 9 x 6, pap.

256 ——Memorial to Congress praying to be allowed to purchase five hundred thousand acres of the Government land on a credit of six years; and also asking an extension of three years on their bonds for the payment of the duties on certain railroad iron imported by them. (25th Cong., 3d Sess. Senate, No. 37.) Wash., 1838. 3 pp., 9 x 6, pap.

3 ——Report of the Committee on Naval Affairs relative to the memorial of the A., F. & G. R. R. Co., and the memorials of numerous citizens of Alabama and Florida, asking Congress to grant the alternate sections of the public land through which the contemplated road will pass, to the said railroad company, to aid in the construction thereof. (30th Cong., 1st Sess. House rep., 230.) no place, 1848. 15 pp., 9 x 6, pap.

222 **ALBANY & SCHENECTADY R. R.** Act to authorize the consolidation of the A. & S., Schenectady & Troy, Utica & Schenectady, Syracuse & Utica, Rochester & Syracuse, the Buffalo & Lockport, the Mohawk Valley, the Syracuse & Utica Direct, Buffalo & Rochester, Rochester, Lockport & Niagara Falls R. R. Companies. Note: The companies consolidated by this act formed the N. Y. Central R. R. Co. Albany, 1853. 1 p., 10 x 7, b. p. no title-page.

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190 ——Report of the Select Committee to which was referred petition for aid to the A. & S. R. R.; transmitted to the Legislature, Jan. 16th, 1860. N. Y.-Senate. Albany. 1860. 23 pp., 9 x 6, pap.

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287 **ASHTABULA, YOUNGSTOWN & PITTSBURGH R. R.** First mortgage, thirty-year, seven per cent. gold bonds; with a cumulative sinking fund, interest and principal payable in New York. Pittsburg, no date. 37 pp., maps, 9 x 6, pap.

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212 **AUSTRIA.** Die österreichische Regierungsvorlage betreffend den Entwurf eines Gesetzes, womit Bestimmungen für die Anlage und den Betrieb von Localbahnen und Kleinbahnen getroffen werden. E. A. Ziffer. Note: Reprinted from *Der Bautechniker*. 3 + 3 pp., 14 x 11, pap. no title-page.

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4 **BALTIMORE & SUSQUEHANNA R. R.** Laws and ordinances relating to the B. & S. R. R. Co. Balt., 1850. various pagings, 9 x 5, b. p.

207 **BEECH CREEK, CLEARFIELD & SOUTHWESTERN R. R.** Arguments opening and closing, of the counsel for plaintiff, in the case of Frank McLaughlin *vs.* the B. C., C. & S. W. R. R. Co., and George J. Magee; in the Court of Common Pleas of Clinton County, No. 72, Jan., 1886; delivered before Robert H. Sayre, W. H. Nearing and John A. Wilson, Arbitrators, at Lock Haven, Pa., July 22d, 1886. W. C. Kress. Lock Haven, 1886. 89 pp., 9 x 5, pap.

277 ——Court of Common Pleas of Clinton County, 72d January Term, 1886, testimony submitted by agreement to arbitrators. Frank McLaughlin and others. Note: Case relative to certain contracts for work in constructing the B. C., C. & S. W. R. R. no place, no date. 187 pp., 9 x 6. pap.

206 ——Frank McLaughlin *vs.* George J. Magee, General Contractor, and the B. C., C. & S. W. R. R. Co.; before Robert H. Sayre, W. S. Nearing and John A. Wilson, Arbitrators: Argument on behalf of defendants, delivered at the Court House, at Lock Haven, Pa., July 22d, 1886. M. E. Olmsted. Note: Stenographically reported by A. C. Stamm. no place, no date. 92 pp., 10 x 6, pap.

266 **BOSTON & CHICAGO RY. TRUST CO.** Bill to incorporate the B & C. Ry. Trust Co., to be presented to the Massachusetts Legislature of 1875. Bay State Transportation League. Bost., 1874. 32 pp., 9 x 6, pap.

BRAZOS & COLORADO R. R. Act to incorporate the B. & C. R. R. Co., 1852. (See Ag-7, p. 539.)

252 **BUFFALO.** Act to provide for the relief of the City of Buffalo and to change and regulate the crossing and occupation of the streets, avenues and public grounds in said city by railroads; Chapter 345. New York-Legislature. Note: Approved by the Governor, May 22d, 1888. Buffalo, 1888. 18 pp., 6 x 4, pap.

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170 **BYTOWN & PRESCOTT RY.** Act for the incorporation of a company to construct a railroad between Bytown and Prescott, 10th May, 1850, also an Act to amend the act incorporating the B. & P. Ry. Co., 30th Aug., 1851. Canada-Legislative Assembly. Bytown, Can., 1852. 30 pp., 8 x 5, pap.

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41 ——Act relative to the Commissioners of Transportation; their powers and duties. Sacramento, 1876. 8 pp., 9 x 6, pap.

40 ——Explanation of tables 1 to 9, hereto appended, and of Act No. 3, in the supplementary report of the Transportation Commissioners, 1878. Note: Laws of California relating to railroads. Sacramento, 1878. 13 pp., tab., 9 x 6, pap.

283 **CATAWISSA R. R. CO. and PHILADELPHIA & READING R. R. CO., *vs.* NORTH & WEST BRANCH RY. CO.** Bill in equity in the Court of Common Pleas of Columbia County. Note: Relative to crossing of tracks at Rupert, Pa. Bloomsburg, Pa., 1882. 188 pp., 9 x 6, pap.

253 **CENTRAL PACIFIC R. R.** Memorial to Congress on the subject of the C. P. R. R. Missouri-General Assembly. (31st Cong., 1st Sess. Senate, misc. No. 25.) Wash., 1850. 4 pp., 9 x 6, pap.

25 ——Opinions in the Pacific R. R. cases—Thurman Act; with material portions of the acts. U. S.-Supreme Court. N. Y., 1879. 66 pp., 9 x 6, pap.

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CENTRAL R. R. OF NEW JERSEY. In the Circuit Court of the United States, District of New Jersey. On motion for interlocutory injunction. Argued, Mar. 24th, 1858. Charles Goodyear and the New England Car-Spring Co. *vs.* The C. R. R. of N. J. Note: Suit relates to alleged infringement of the plaintiff's patent on rubber car-springs. N. Y., 1858. 15 pp., 9 x 6, b. p. Ad-2, p. 189.

178 **CHERRY VALLEY & MOHAWK RIVER R. R.** Charter of the C. V. & M. R. R. R. Co. New York-Legislature. Albany, 1864. 20 pp., 9 x 6, pap.

8 **CHICAGO & BURLINGTON R. R.** Trial of O. T. Caldwell. Note: Tried on the charge of embezzlement while conductor on the C. & B. R. R. 1855. 35 pp., 9 x 5, b. p. no title-page.

86 **CHICAGO & NORTHWESTERN R. R.** How will the United States Supreme Court decide the Granger railroad cases? D. A. Wells. Note: Reprinted from *The Nation*, Oct. 29th, 1874. 19 pp., 9 x 6, pap. no title-page.

86 **CHICAGO & ST. PAUL R. R.** How will the United States Supreme Court decide the Granger railroad cases? D. A. Wells. Note: Reprinted from *The Nation*, Oct. 29th, 1874. 19 pp., 9 x 6, pap. no title-page.

267 **CHICAGO, BURLINGTON & QUINCY R. R.** *vs.* **HERMAN LEIB and others.** Supreme Court of Illinois—Grand Central Division, January Term, 1874. Appeal from Cook. no place, 1874. 22 pp., 9 x 6, pap.

200 **CHICAGO, ROCK ISLAND & PACIFIC R. R.** In the Supreme Court of the State of New York; statement and affidavits on behalf of the company, in opposition to motions for injunctions and receivers, made by Rufus Hatch, and Fisk, Belden & Co. and Edward R. Fanshawe, 1868. N. Y., 1868. 67 pp., 9 x 6, pap.

CINCINNATI & SPRINGFIELD RY. Contracts and cases. 1872. (See Ae-60.)

51 **CLEVELAND & PITTSBURGH R. R. and PENNSYLVANIA R. R.** Lease, Oct. 25th, 1871; to take effect Dec. 1st, 1871. Cleveland, 1871. 31 pp., 9 x 6, pap.

CLEVELAND, COLUMBUS & CINCINNATI R. R. Acts constituting the charter of the C., C. & C. R. R. Co., and authorizing corporate authorities to subscribe thereto. Ohio-General Assembly. Cleveland, 1848. 31 pp., 8 x 5, b. p. Aj-36, p. 121.

168 **CONNECTICUT.** Statutes relating specially to railroads, revised and corrected; and including the laws passed at the January Session, 1878. Hartford, 1878. 58 pp., 9 x 6, pap.

——Statutes relating especially to railroads. Railroad Commissioners, comp. 1871-99. (See Ah-15, annual reports.)

2 **CORNING & OLEAN R. R. and NEW YORK & ERIE R.R.** Articles of agreement. no place. 1853. 24 pp., 8 x 5, b. p.

211 **COVINGTON & LEXINGTON R. R.** Charter of the C. & L. R. R. Co. Kentucky-General Assembly. Note: Published by order of the City Council of Covington. Covington, 1849. 12 pp., 7 x 5, pap.

13 **DELAWARE, LACKAWANNA & WESTERN R. R.** Acts relating to the D., L. & W. R. R., also the acts incorporating the Cayuaga & Susquehanna, the Lackawanna & Bloomsburg, and the Warren R. R. Companies; and the general laws of Pennsylvania, New York and New Jersey relative to railroads. Pennsylvania-General Assembly. N. Y., 1856. 93 pp., 8 x 5, b. p.

176 **DUBUQUE & KEOKUK R. R.** Resolutions in favor of a grant of land to aid in the construction of the D. & K. R. R. Iowa-General Assembly. (30th Cong., 2d Sess. Senate misc. No. 16.) Wash., 1849. 7 pp., 9 x 6, pap.

286 **EASTERN R. R.** Argument on behalf of the E. R. R., at a hearing on the petitions of David Pingree and others and W. J. Valentine and others before the Railroad Committee of the Massachusetts Legislature, Mar. 7th, 1845. C. G. Loring. Note: The petitioners prayed that a charter be granted to a railroad company whose line would run parallel to the E. R. R. Bost., 1845. 88 pp., 9 x 6, pap.

294 ——*vs.* Ross Winans. In equity: Evidence for complainant, in United States Circuit Court, Massachusetts District, October Term, 1853. Note: Suit relates to the alleged infringement of the plaintiff's patent on the eight-wheel car. Bost., 1854. 439 pp., 11 x 7, ¾ sh.

295 ——*vs.* Ross Winans. In Equity: Evidence for respondents, in United States Circuit Court, Massachusetts District, October Term, 1853. Note: Suit relates to the alleged infringement of the plaintiff's patent on the eight-wheel car. Bost., 1854. 1299 pp., pl., 11 x 9, ¾ sh.

233 **EDINBURGH & GLASGOW RY.** Act for making a railway from Edinburgh to Glasgow, to be called "the Edinburgh & Glasgow Railway," with a branch to Falkirk. (1st and 2d Victoria, Sess., 1838.) no place, 1838. 170 pp., 13 x 8, b. p.

233 ——Act to amend the act relating to the E. & G. Ry. (3d and 4th Victoria, Sess., 1840.) no place, 1840. 14 pp., 13 x 8, b. p.

233 ——Promotors' and Opponents' evidence taken before the Committee on the E. & G. Ry. Bill from 20th Mar. to 8th May. Glasgow, 1838. 2 v., 13 x 8, b. p.

Af—(*Continued*).

288 **ELECTRIC R. R. SIGNAL CO.** *vs.* **THE HALL RY. SIGNAL CO.** Suit in the Circuit Court of the United States for the District of Connecticut, to determine the validity of certain patents granted to Thomas S. Hall. Meriden, Conn., 1881. 7 pp., 7 x 4, pap.

12 **ELIZABETHTOWN & SOMERVILLE R. R.** Acts relative to the E. & S. R. R. Co. New Jersey-Legislature. Elizabethtown, 1839. 20 pp., 8 x 5, b. p.

16 **ERIE & CLEVELAND R. R.** Acts authorizing the Franklin Canal Co. to construct a railroad; together with the Charter of the Governor, and Proceedings of the Company; also the general railroad law of Pennsylvania; and the report of the Chief Engineer. Cleveland, 1850. 34 pp., 9 x 6, pap.

ERIE & KALAMAZOO R. R. Acts incorporating the E. & K. R. R. Co., and Bank; passed 1833, 1835 and 1836. Michigan (Territory)-Legislative Council. (See Aj-36, p. 13.)

195 **ERIE RY.** The people, etc., on the complaint of Frank Platt, Alexander Robertson and Charles Barrett *vs.* Hugh J. Jewett; charge of perjury. H. J. Jewett. Note: Relates to the statement of the accounts of the E. Ry. Co., in the annual report of the Receiver. no place, 1878. 6 pp., 11 x 7, pap. no title-page.

196 ——The people *vs.* Hugh J. Jewett; accusation of perjury; memoranda by George F. Comstock. H. J. Jewett. Note: Relates to the statement of the accounts of the E. Ry. Co., in the annual report of the Receiver. N. Y., 1878. 10 pp., 10 x 7, pap.

198 ——*et al. vs.* Farmers' Loan and Trust Co. Supreme Court, City and County of New York; affidavits relative to the statements of accounts made by the Receiver and Auditor of the E. Ry. Co. no place, 1878. various pagings, 10 x 7, pap. no title-page.

219 **ESTRADA DE FERRO DA BAHIA AO SAN FRANCISCO, PROLONGAMENTO DA.** Regulamento para o serviço do trafego e construcção do prolongamento da Estrada de Ferro da Bahia ao San Francisco. Brazil-Ministro e Secretario de Estado dos Negocios da Agricultura. Commercio e Obras Publicas. Bahia, 1891. 47 pp., 8 x 6, ¾ skiv.

215 **EUROPEAN & NORTH AMERICAN RY.** Act to incorporate the E. & N. A. Ry. Co. Maine-Legislature. no place, 1850. 13 + 1 pp., 8 x 5, b. p.

215 ——Acts incorporating the E. & N. A. Ry., and facilitating the construction of the road; passed 15th and 28th March, 1851. New Brunswick-General Assembly. Fredericton, 1851. 31 + 2 pp., 8 x 5, b. p.

215 ——Documents in relation to the E. & N. A. Ry. Maine-Legislature. Portland, 1851. 155 + 1 pp., map, 8 x 5, b. p.

215 ——Petition of the Executive Committee for the State of Maine, to the Senate and House of Representatives of Massachusetts for aid to construct the E. & N. A. Ry. Portland (Me.) Railway Convention. no place, 1851. 9 pp., 8 x 5, b. p.

215 ——Proceedings. New Brunswick General Assembly. Note: Extract from the Journal of the Legislature, of Proceedings relative to the E. & N. A. Ry. no place, 1851. 3 pp., 8 x 5, b. p.

215 ——Report of the Joint Special Select Committee, to whom was referred the petition of the Executive Committee of the State of Maine to promote the construction of the E. & N. A. Ry., praying assistance from the Commonwealth. Massachusetts-General Court. no place, 1851. 6 pp., 8 x 5, b. p.

16 **FRANKLIN CANAL CO.** Acts authorizing the Franklin Canal Co. to construct a railroad; together with the Charter of the Governor and Proceedings of the Company; also the general railroad law of Pennsylvania; and the report of the Chief Engineer. Cleveland, 1850. 34 pp., 9 x 6, pap.

GALVESTON & RED RIVER RY. Act supplementary to the act to establish the G. & R. R. Ry. Co. Texas-Legislature. 1852. (See Ag-7, p. 333.)

241 ——Memorial praying that the G. & R. R. Ry. Co. may be granted the privilege of extending their railroad through the territory of the United States to the Pacific Ocean. Ebenezer Allen and others. (30th Cong., 2d Sess. Senate, misc., No. 33.) Wash., 1849. 8 pp., 9 x 6, pap.

——Prospectus and charter. 20 pp., 9 x 6, b. p. no title-page. Ab-3, p. 511.

GENERAL.

ADAMS, C. F., Jr. Railroad Legislation. Note: From the *American Law Review*. Bost., 1868. 30 pp., 9 x 6, b. p. Aj-3, p. 77.

GOODYEAR, HENRY B. *vs.* Railroad Car Ventilating Co. Report of the entire testimony as taken before Commissioners . . . and the decision of the Patent Office awarding to Henry B. Goodyear, as Administrator of Nelson Goodyear, assignee of E. Hamilton, the priority of invention for deflecting windows for railroad cars; together with the opinion of Charles M. Keller, and the several patents granted. N. Y., 1853. 15 + 84 pp., pl., 9 x 6, b. p. Ad-2, p. 155.

Af—(*Continued*).

GENERAL—(*Continued*).

HUBBELL, W. W. Arguments on behalf of the defendants, before Samuel Nelson, in the case of Ross Winans *vs.* Orsamus Eaton, *et al.*, commonly known as the "eight-wheel railroad car case," alleged to infringe Ross Winans' patent of Oct. 1st, 1834. Albany, 1853. 200 pp., 9 x 6, b. p. Ad-251, p. 331.

265 **SHINN, W. P.** Relation of railways to the state. Note: Written for and reprinted from *The Railway Review*, Mar. 6th-13th, 1886. Chic., 1886. 15 pp., 8 x 6, pap.

218 **WALWORTH, R. H.** Opinion; and decision as to taxation of railroad corporations. N. Y., 1853. 12 pp., 7 x 4, b. p.

GREAT BRITAIN. By-laws and regulations made for regulating the travelling upon railways. Note: Model generally adopted by railway companies and generally approved by the Committee of Her Majesty's Privy Council for Trade and Foreign Plantations. no date. (See Ae-327.)

——Du régime des travaux publics en Angleterre. Charles de Franqueville. Contents: v. 1, Chemins de fer; v. 2, wanting; v. 3, Législation des chemins de fer; v. 4, Législation des voies de terre, législation de la navigation, législation des bills privés. 1875. (See Aa-41.)

214 ——Treatise on the law of railway companies, in their formation, incorporation, and government; with an abstract of the statutes and a table of forms. Thomas Chambers and A. T. T. Peterson. Lond., 1848. 801 pp., 9 x 6, bds.

273 ——**GREAT BRITAIN—LIGHT RAILWAY COMMISSIONERS.** Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of a light railway in the County of Cornwall, from the Helston Railway to the Lizard Village. Lond., 1898. 18 pp., 13 x 8, pap.

272 ——Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Flamborough and Bridlington in the East Riding of the County of York. Lond., 1898. 32 pp., 13 x 8, pap.

271 ——Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Peakirk in the County of Northampton and Portland in the County of Lincoln. Lond., 1898. 23 pp., 13 x 8, pap.

275 ——Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways between Tonbridge, Yalding Station, Hadlow and Winfield Mill, in the County of Kent. Lond., 1898. 23 pp., 13 x 8, pap.

274 ——Order made by the Commissioners and modified and confirmed by the Board of Trade, authorizing the construction of light railways in the Potteries District of Staffordshire. Lond., 1898. 31 pp., 13 x 8, pap.

GREAT WESTERN RY. OF CANADA. Rights of stockholders in railroad corporations considered; the power of the directors or any majority of the corporators, or of the Legislature, to authorize a subscription to the Great Western Railroad, Canada West, against the objection of any stockholder, denied: opinion of the Court of Chancery of Vermont in a similar case, affirming this doctrine. N. Y., 1852. 43 pp., 9 x 6, b. p. Ah-24, p. 468.

257 **GREAT WESTERN RY. OF ILLINOIS.** Memorial praying the right of pre-emption to the lands through which the said road may pass. (28th Cong., 1st Sess. Senate, No. 12.) Wash., 1843. 5 pp., 9 x 6, pap.

7 **GREEN BAY, MILWAUKEE & CHICAGO R. R.** First report of the Chief Engineer of the G. B., M. & C. R. R.; presented to the Board of Directors, Aug. 2d, 1852, with a copy of the Charter of the Company and amendments thereto, as granted by the Legislature of Wisconsin. C. R. Alton. Milwaukee, 1852. 14 + 1 pp., map, 9 x 5, b. p.

7 **HANNIBAL & ST. JOSEPH R. R.** Charter and amendments, with other laws and documents exhibiting the organization of the H. & St. J. R. R. St. Louis, 1853. 30 pp., 9 x 5, b. p.

248 ——Communication to the Committee on Public Lands in relation to Bill S. 248 granting the right of way and land for the St. J. & H. R. R. J. S. Green and W. P. Hall. (30th Cong., 1st Sess. Senate, rep., 178.) Wash., 1848. 13 pp., 9 x 6, pap.

7 ——Documents in relation to the H. & St. J. R. R. Co. N. Y., 1853. 25 pp., 9 x 5, b. p.

HEMPFIELD R. R. Argument in favor of the constitutionality of the subscription by the city of Philadelphia to the capital stock of the Hempfield, and Philadelphia, Easton & Water Gap R. R. Companies; delivered before the Supreme Court of Pennsylvania, 25th July, 1853, in the case of Sharpless and others *vs.* the Mayor, aldermen and citizens of Philadelphia. J. M. Read. Phil., 1853. 31 pp., 9 x 6, b. p. Ag-5, p. 817.

HENDERSON & BURKVILLE R. R. Act to incorporate the H. & B. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 433.)

Af—(*Continued*).

218 **HUDSON RIVER R. R.** Act further to amend an "Act to authorize the construction of a railroad from New York to Albany"; passed Feb. 10th, 1848. New York-Legislature. no place, no date. 9 pp., 8 x 5, b. p.

222 ——And the New York Central R. R. Co. Agreement of consolidation, Sept. 15th, 1869. 13 pp., 9 x 5, b. p. no title-page.

218 ——Amended act of incorporation of the H. R. R. R. Co.; by-laws and extracts from general laws relating to railroads. New York-Legislature. N. Y., 1853. 37 + 7 pp., 8 x 5, b. p.

218 ——Amended act of incorporation of the H. R. R. R. Co.; by-laws and extracts from revised statutes. New York-Legislature. N. Y., 1847. 54 pp., 8 x 5, b. p.

218 ——Copy of Second mortgage. 6 pp., 8 x 5, b. p. no title-page.

218 ——*vs.* Susannah Drake and others. In the Supreme Court of New York; motion enjoining the defendants from constructing a railroad on certain streets in the city of New York, denied by the Court. 38 pp., 8 x 5, b. p. no title-page.

5 **ILLINOIS.** General railroad law. no place, 1852. pp. 21-45, 9 x 6, b. p.

——Rules of practice in all cases and proceedings before the Railroad and Warehouse Commission. 1888. (See Ae-316.)

227 **ILLINOIS CENTRAL R. R. CO.** *et al. vs.* S. H. Turrill. Additional testimony before the Master, Nov. and Dec., 1873, in the United States Circuit Court, Northern District of Illinois. Chic., 1873. 559 pp., 11 x 7, ¾ sh.

226 ——*et al. vs.* Samuel Turrill. Pleadings and testimony for complainant; in the United States Circuit Court, Northern District of Illinois. Note: Suit relates to the alleged infringement of a patent on a machine for repairing rails. Chic., 1873. 300 pp., 11 x 7, ¾ sh.

——Documents relating to the organization of the Illinois Central R. R. Co. N. Y., 1851. 146 + 1 pp., 10 x 8, b. p. Ag-286, p. 109.

239 ——Report on a "bill to grant to the State of Illinois certain alternate sections of the public lands, to aid in the construction of the Northern Cross and Central Railroads in said state." U. S.-Committee on Public Lands (Senate). (29th Cong., 1st Sess. Senate doc., 152.) Wash., 1846. 16 pp., 9 x 6, pap.

249 ——Report on the bill granting to the State of Illinois, the right of way, and a donation of public lands for making a railroad connecting the Upper and Lower Mississippi with the chain of northern lakes at Chicago. (30th Cong., 1st Sess. Senate rep. No. 42.) Wash., 1848. 15 pp., 9 x 6, pap.

228 ——United States Circuit Court, Northern District of Illinois—Samuel H. Turrill *vs.* the railroads: Brief for defendants on exceptions to the Master's report. Geo. Payson. Note: Suit relates to the alleged infringement of a patent on a machine for repairing rails. 38 pp., 11 x 8, pap. no title-page.

INDIA. Copies of all contracts or agreements entered into by the East India Company, or by the present Council of India, with any company formed for making railways, public roads, canals, works for irrigation, or other public works in India, by which contracts or agreements a rate of interest is guaranteed upon the capital of such companies already paid up, or hereafter to be paid up. Railway and Telegraph Department. 1859. (See Ai-24.)

10 **INDIANAPOLIS & ST. LOUIS R. R. CO. and others *vs.* ST. LOUIS, ALTON AND TERRE HAUTE R. R. CO.** Record of Case No. 6257 in Chancery in the Circuit Court of the United States for the District of Indiana; including pleadings, opinions of Judges Gresham and Drummond and depositions of witnesses. St. Louis, no date. 383 pp., 9 x 6, pap.

1 **IOWA.** Statutes of Iowa relating to railroads, and notes of decisions thereunder; from the Report of the Railroad Commissioners for 1890. Emlin McClain. Des Moines, 1891. 157 pp., 9 x 6, bds.

IOWA CENTRAL AIR-LINE R. R. Articles of incorporation; and laws of the State of Iowa, in relation to corporations, and granting to railroad companies the right of way. Cedar Rapids, Ia., 1858. 20 pp., 9 x 6, b. p. Ag-7, p. 271.

14 **JAMESTOWN & FRANKLIN R. R.** Charters of the J. & F. R. R. Co. and the Mercer Iron & Coal Co.; with supplements and other acts. Cleveland, 1864. 30 pp., 9 x 6, pap.

169 **JUNCTION R. R. CO.** *vs.* The Pennsylvania R. R. Co. and J. Edgar Thomson. Bill in equity in Supreme Court of Pennsylvania, Eastern District. Note: Suit to prove title to property. 8 pp., map, 9 x 6, pap. no title-page.

208 **KANSAS.** Final decision after rehearing; the Wichita Wholesale Grocery Co. and others, complainants, *vs.* the Atchison, Topeka & Santa Fé R.R. Co. and others, respondents. Board of Railroad Commissioners. Topeka, 1892. 9 pp., 9 x 6, pap.

48 **LA GRANGE & MEMPHIS R. R.** Compilation of the acts of the Legislatures of Tennessee, Alabama and Mississippi in relation to the Memphis & Charleston and La G. & M. R. R. Cos. Memphis, 1852. 56 pp., 8 x 5, pap.

269 **LAWRENCE R. R.** Exhibit of its charter, organization and mortgage. Pittsburg, 1866. 30 pp., 9 x 6, pap.

Af—(*Continued*).

54 **LEAVENWORTH, PAWNEE & WESTERN R. R.** Charter of the L., P. & W. R. R., and all laws of Kansas affecting its powers, duties and liabilities. Kansas (Territory)-Legislative Assembly. N. Y., 1862. 24 pp., 9 x 6, pap.

LITTLE ROCK, PINE BLUFF & ARKADELPHIA SOUTHWESTERN R. R. Act authorizing the construction of a bridge across the Mississippi River at St. Louis in the State of Missouri, and an act to authorize the L. R., P. B. & A. S. W. R. R. Co. to construct a bridge over the Ouachita River at or near Arkadelphia, Ark. no place, 1873. 5 pp., 7 x 5, b. p. no title-page. Ab-7, p. 673.

LONDON & BIRMINGHAM RY. Appendix to railway practice; containing a copious abstract of the whole of the evidence given upon the L. & B. and Great Western Ry. bills; to which is added a glossary of technical terms used in civil engineering; and the details of Hawthorn's celebrated locomotive engine for the Paris & Versailles Ry. S. C. Brees. 1839. (See Ac-149.)

168 **MAHANOY & BROAD MOUNTAIN R. R.** Act of incorporation of the M. & B. M. R. R. Co.; with its supplements and by-laws and the general railroad law of Pennsylvania. Pennsylvania-General Assembly. Phil., 1861. 20 pp., 9 x 6, pap.

8 **MARIETTA & CINCINNATI R. R.** Charter of the M. & C. R. R. Co., passed Mar. 8th, 1845; together with amendments thereto, to which are affixed the by-laws of the company. N. Y., 1852. 48 pp., 9 x 5. b. p.

261 **MARQUETTE, SAULT STE. MARIE & MACKINAW R. R.** Plaintiff's points: Statement; in New York Supreme Court, General Term. C. B. Walter and others. Note: Suit brought to determine the amount that should be paid by the Defendants for the contract to construct the M., S. Ste. M. & M. R. R. no place, 1879(?) 11 + 1 pp., 11 x 7 pap. no title-page.

48 **MEMPHIS & CHARLESTON R. R.** Compilation of the Acts of the Legislatures of Tennessee, Alabama and Mississippi in regard to the Memphis & Charleston, and La Grange & Memphis R. R Cos. Memphis, 1852. 56 pp., 8 x 5, pap.

178 **MEXICAN CENTRAL RY.** Amendment of Articles in the Concession of Sept. 8th, 1880; granted to the M. C. Ry. Co. Mexico-Department of State, Public Works, Colonization, Industry and Commerce. no place, 1883. 21 pp., 9 x 6, pap. no title-page.

179 ——Further amendment of Articles in the Concession of Sept. 8th, 1880; granted to the M. C. Ry. Co. Mexico-Department of State, Public Works, Colonization, Industry and Commerce. no place, 1885. 37 pp., 9 x 6, pap. no title-page.

175 ——Introductory report: Massachusetts laws; Mexican concession; by-laws. Bost., 1881. 239 + 13 pp., maps, 9 x 6, pap.

255 **MEXICAN SOUTHERN RY.** Charter, etc. Note: Pages after p. 64, wanting. no place, no date. pp. 1-64, map, 9 x 6, pap.

250 **MEXICO.** Republic of Mexico, and railroads: A brief review of her past history and present condition; a synopsis of railroad charters granted by the Federal Government since the fall of the Empire under Maximilian, and the re-establishment of the Republic under Benito Juarez. R. B. Gorsuch. N. Y., 1881. 45 pp., map, 9 x 6, pap.

184 ——Charter for the building of a railroad between the Port of Anton Sizardo and the Pacific Ocean, through the State of Oaxaca; and Power of Attorney from the Governor of that State to transfer the Charter. N. Y., 1881. 33 pp., 9 x 6, pap.

213 **MICHIGAN CENTRAL R. R.** Statement, reply, and amended statement; made to the Referees to whom was submitted the determination of the compensation to be paid by the M. C. R. R. Co., for the use of the tracks of the Illinois Central R. R. Co. between Chicago and Calumet. Illinois Central R. R. Co. no place, 1860. various pagings, map, 10 x 8, pap. no title-page.

MICHIGAN. General Railroad Law of the State: An Act to provide for the incorporation of railroad companies. 1855. (See Af-8, p. 867.)

37 ——General Railroad laws, including all laws affecting railroads passed by the Legislature of 1875; comp. by the Commissioner of Railroads. Lansing, 1875. 82 pp., 9 x 6, pap.

264 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Brief for appellant. The M. S. & N. I. R. R. Co., appellant, *vs.* Samuel H. Turrill, appellee, in the Supreme Court of the United States. November Term, 1876. J. B. Niles. Note: Relative to machine used in mending rails. (Cawood patent). Chic., 1876. 64 pp., pl., 10 x 8, pap.

298 ——United States Circuit Court, Northern District of Illinois. Samuel H. Turrill *vs.* the railroads: Brief for defendants on exceptions to the Master's report. George Payson. Note: Suit over the use of the "Cawood Block." 33 pp., 11 x 8, pap. no title-page.

7 **MILWAUKEE, FOND DU LAC & GREEN BAY R. R.** Acts incorporating the M., F. du L. & G. B. R. R. Co. Milwaukee, 1853. 42 pp., 8 x 5, b. p.

240 **MINE A LA MOTTE & MISSISSIPPI R. R.** Act to incorporate the M. á la M. & M. R. R. Co. Missouri-Legislature. (26th Cong., 1st Sess. Senate doc., 210.) Wash., 1840. 4 pp., 9 x 6, pap.

Af—(*Continued*).

MINERAL POINT R. R. Charter of the M. P. R. R. Co.; with amendments, also by-laws of said company. Mineral Point, Wis., 1853. 18 pp., 7 x 4, b. p. Ae-1, p. 369.

MINNESOTA & PACIFIC R. R. Grant of lands by the Minnesota (Territory) Legislative Assembly to the M. & P. R. R. Co. and others; together with an Act of Congress in relation to the same. St. Paul, 1857. 27 pp., 8 x 5, b. p. Ae-1, p. 331.

MISSISSIPPI & MISSOURI R. R. Abstract, pleadings and proof, and argument by N. B. Judd and G. C. Campbell, Counsel for defendant, on final hearing, Nov. 1st, 1859, in the District Court of the United States for the State of Iowa. James Ward *vs.* the M. & M. R. R. Co. Note: Plaintiff endeavors to prove that the Rock Island Draw Bridge interferes with navigation. 1859. (See Fd-63.)

15 ——Acts of Congress and the State of Iowa, granting lands to the M. & M. R. R. Co. N. Y., 1854. 28 pp., 9 x 6, pap.

217 **MISSOURI.** Act to authorize the formation of railroad associations, and to regulate the same; approved Feb. 24th, 1853. St. Louis, 1853. 12 pp., 9 x 5, b. p.

217 ——Veto message, and the Bill to secure the completion of certain railroads in the State of Missouri, with the speeches and ayes and noes. Jefferson City, 1855. 34 pp., 9 x 5, b. p.

244 **MISSOURI & MISSISSIPPI R. R.** Memorial asking a grant of land and the right of way through the public lands for the M. & M. R. R. Co. Missouri-Legislature. (31st Cong., 1st Sess. House, misc., No. 30.) Wash., 1850. 2 pp., 9 x 6, pap.

181 **MISSOURI, KANSAS & TEXAS RY.** Lines of road, location, its corporate rights, franchises and property; with appendices. N. Y., 1871. 254 pp., map, 9 x 6, cl.

MOBILE & OHIO R. R. Charter, laws and exhibit of the progress and condition, June, 1852. N. Y., 1852. 31 pp., 9 x 6, b. p. Ab-3, p. 463.

220 ——Compendium of the several deeds of mortgage and trust made by said company to secure payment of its bonds; also laws of the several states through which its road passes; also Acts of Congress making a grant of land in aid of the construction of said road. Mobile, 1876. 4 + 74 pp., 9 x 6, b. p.

221 ——*et al. vs.* W. B. Duncan and A. F. Elliot. Circuit Court of the United States, Fifth Judicial Circuit and Southern District of Alabama: Resolutions and agreements of the M. & O. R. R. Co., relating to issue of bonds; filed as evidence with Master's report of Apr. 6th, 1877. no place, no date. 39 pp., 9 x 6, b. p.

220 ——*et al. vs.* W. B. Duncan *et al.* Circuit Court of the United States, Southern Judicial Circuit, Western District of Tennessee, in equity: Decree made Nov. 12th, 1877. Note: Relative to the sale of the M. & O. R. R. 15 pp., 9 x 6, b. p. no title-page.

220 ——*et al. vs.* W. B. Duncan *et al.* United States Circuit Court, Fifth Southern District of Alabama; consolidated causes in equity: Master's report. Contents: Exhibits, testimony, orders, decrees and reports; agreement of reorganization. Note: Relative to the sale and reorganization of the M. & O. R. R. no place, 1879. 246 + 6 pp., 9 x 6, b. p.

220 ——*et al. vs.* W. B. Duncan and A. F. Elliot. United States Circuit Court, Fifth Judicial Circuit, Southern District of Alabama: Proceedings and testimony before the Special Master, and minutes of the reference. Note: Relates to the reorganization of the company. Mobile, 1876-77. 6 v., 9 x 6, b. p.

220 ——*vs.* W. B. Duncan *et al.* United States District Court, Southern District of Alabama: Circuit Justice Bradley's opinion, decree, etc., Woods, Circuit Judge, concurring. Note: Case relative to sale of the M. & O. R. R. and other properties of the company under the first mortgage; and the validity of said mortgage. Mobile, 1877. 22 pp., 9 x 6, b. p.

220 ——Supreme Court of the United States. Nos. 879 and 1057, October Term, 1877: appeals from the Circuit Court of the United States for the Southern District of Alabama: Opinion of the Court. Morris Ketchum and others. Note: Relative to the validity of the mortgage of 1853, of the M. & O. R. R. Co. 17 pp., 9 x 6, b. p. no title-page.

MOHAWK & HUDSON R. R. State of New York, Supreme Court, Bill of exceptions and case. M. & H. R. R. Co. *vs.* John Brown. Note: Case relates to the destruction of property caused by overflow of water and ice from Mill Creek. Albany, 1844. 53 pp., pl., map, 12 x 9, b. p. Da-65, p. 335.

242 **MOUNT CARMEL & NEW ALBANY R. R.** Report on the memorials of the inhabitants of New Albany, St. Louis, and New Orleans, praying for a grant of land to aid in constructing the M. C. & N. A. R. R. U. S.-(Senate) Committee on Roads and Canals. (25th Cong., 3rd Sess. Senate No. 49.) Wash., 1839. 12 pp., map, 9 x 6, pap.

260 **NEW HAMPSHIRE.** Public statutes of New Hampshire relating to railroads, in force on and after Apr. 1st, 1893. Concord, 1893. 40 pp., 9 x 6, pap.

NEW HAVEN & HARTFORD R. R. Charter of the N. H. & H. R. R. Co. Connecticut-General Assembly no place, no date. 8 pp., map, 8 x 5, b. p. Ac-139, p. 527.

Af—(*Continued*).

166 **NEW JERSEY R. R. & TRANSPORTATION CO.** Act to incorporate the N. J. R. R. & T. Co.; passed Mar. 7th, 1832; together with extracts from the supplement to an act entitled an "Act relative to the Delaware & Raritan Canal and the Camden & Amboy R. R. & Transportation Cos.; passed Mar. 2d, 1832." New Jersey-Legislature. Newark, 1832. 16 pp., 8 x 5, pap.

——and Morris & Essex R. R. Co. Agreement between the companies entered into the 13th day of October, 1853. Note: Agreement insuring to the M. & E. R. R., direct communication between Newark and Jersey City, over the tracks of the N. J. R. R. & T. Co. Newark, 1856. 16 pp., 8 x 5, b. p. Ag-280, p. 21.

NEW ORLEANS & OHIO AIR-LINE R. R. Report on the surveys, estimates and income of the N. O. & O. A.-L. R. R., to the Commissioners; with an appendix of charters. J. J. Williams. 1868. (See Ab-82.)

18 **NEW ORLEANS, MOBILE & TEXAS R. R.** Mortgage bonds of the company. N. Y., 1871. 32 pp., map, 9 x 6, pap.

5 **NEW YORK STATE.** Act to authorize the formation of railroad corporations, and to regulate the same. Albany, 1850. 38 pp., 9 x 6, b. p.

209 ——Act to provide for the construction of a railroad from Oswego to Utica; passed May 13th, 1836. 8 pp., 9 x 6, pap. no title-page.

——General laws relative to railroads, 1834-48. (See Af-6, p. 13.)

165 ——Report of the Minority of the Select Committee on the Pro Rata Freight Bill; together with a remonstrance from the Chamber of Commerce of New York; transmitted to the Assembly, Feb. 8th, 1860. Albany, 1860. 18 + 5 pp., 9 x 6, pap.

164 ——Report of the Minority of the Select Committee on the petitions and bills for imposing tolls on certain railroads; transmitted to the Senate, Feb. 8th, 1860. Albany, 1860. 18 pp., 9 x 6, pap.

——Statutes of New York in relation to highways, bridges and ferries, with commentaries; also an appendix containing all the forms and precedents to be used under said statutes. W. S. Bishop, comp. ed. 2, enl. Rochester, 1847. 112 pp., 8 x 5, b. p. Ag-282, p. 623.

2 **NEW YORK & ERIE R. R.** and Williamsport & Elmira R. R. Articles of agreement. no place, 1853. 7 pp., 8 x 5, b. p. no title-page.

2 ——Bill on the N. Y. & E. R. R.; truths which every citizen ought to read. N. Y., 1842. 24 pp., 4 x 7, b. p.

——Charter and laws relating to the N. Y. & E. R. R. Co. New York-Legislature. N. Y., 1846. 71 pp., 8 x 5, b. p. Ag-282, p. 53.

——Charter and laws relating to the N. Y. & E. R. R. Co., general railroad law, etc. New York-Legislature. N. Y., 1849. 128 pp., 8 x 5, b. p. Ag-282, p. 297.

216 ——Charter of the N. Y. & E. R. R. Co. New York-Legislature. 16 pp., 8 x 5. b. p. no title-page.

2 ——Copy of mortgage to secure the payment of the bonds of the N. Y. & E. R. R. Co., for four millions of dollars; executed Mar. 1st, 1849. N. Y., 1849. 4 pp., 8 x 5, b. p.

2 ——Indenture of mortgage between the N. Y. & E. R. R. Co. and James Brown and John Davis, Mar. 1st, 1853. N. Y., 1853. 4 pp., 8 x 5, b. p.

2 ——Opinions and decisions on the question whether the bill for conditionally releasing the N. Y. & E. R. R. Co. from the State Loan, is a majority bill. Dickson and others. Albany, 1845. 19 pp., 9 x 5, b. p.

——Report of the Attorney General of New York in answer to a resolution of the Assembly in relation to the N. Y. & E. R. R. Co. Albany, 1845. 16 pp., 8 x 5, b. p. Ah-23, p. 737.

222 **NEW YORK CENTRAL R. R.** Act authorizing the consolidation of certain railroad companies. N. Y.-Legislature. 1869. 4 pp., 9 x 6, b. p. no title-page.

222 ——Act to authorize the consolidation of the Albany & Schenectady, Schenectady & Troy, Utica & Schenectady, Syracuse & Utica, Rochester & Syracuse, the Buffalo & Lockport, the Mohawk Valley, the Syracuse & Utica Direct, Buffalo & Rochester, Rochester, Lockport & Niagara Falls R. R. Cos. Note: The companies consolidated by this act formed the N. Y. C. R. R. Co. Albany, 1853. 1 p., 10 x 7, b. p. no title-page.

222 ——and the Hudson River R. R. Agreement of consolidation, Sept. 15th, 1869. 13 pp., 9 x 5, b. p. no title-page.

5 ——Agreement whereby several companies are consolidated into one corporation under the name of "The New York Central R. R. Co." in pursuance of an act of the Legislature of the State of New York, entitled "an act to authorize the consolidation of certain railroad companies," passed Apr. 2d, 1853. Albany, 1853, 36 pp., 9 x 6, b. p.

172 ——and Saratoga & Hudson River R. R. Lease, Mar. 7th, 1867. Albany, 1867. 14 pp., 9 x 6, pap.

Af—(*Continued*).

215 **NEW YORK, LACKAWANNA & WESTERN RY. CO.** *vs.* New York, Lake Erie and Western R. R. Co. State of New York, in the Supreme Court, Third Judicial Department; the Chemung Crossing case: Return on appeal from report of Commissioners to fix crossing, etc., and from order confirming the same. Contents: v. 1, Evidence. v. 2, Exhibits. Elmira, 1882. 2 v., 1124 pp., pl., map., tab., 10 x 7, skiv.

251 ——*vs.* Buffalo, New York & Erie R. R. Co. and New York, Lake Erie & Western R. R. Co. State of New York, in the Supreme Court, Fourth Judicial Department; the Erwin Crossing case: Return on appeal from report of Commissioner to fix crossing, etc., and from order confirming the same. Elmira, 1882. 989 pp., pl., 10 x 7, sh.

20 **NEW YORK WAREHOUSE & RAILWAY CO.** Charter of the N. Y. W. & Ry. Co.: Facts and figures, principally extracts from the Report of the N. Y. Cheap Transportation Association, showing the necessity for incorporating the N. Y. W. and Ry. Co., and also argument of E. M. Madden on passage of bill in the Senate, 1873. N. Y.-Legislature. no place, 1874. 19 + 33 pp., 10 x 7, pap.

7 **NORTH MISSOURI RAILROAD CONVENTION.** Memorial to the General Assembly of the State of Missouri. Jefferson City, Mo., 1852. 12 pp., 9 x 5, b. p.

17 **NORTH SIMCOE RY.** Act to amend the Act incorporating the N. S. Ry. Co. Ontario-Legislative Assembly. no place, 1874. 1 p., 9 x 7, pap.

209 ——Act to incorporate the North Simcoe Ry. Co. Ontario-Legislative Assembly. Toronto, 1874. 13 pp., 10 x 7, pap.

183 **NORTHERN CENTRAL RY.** Appeal of the N. C. Ry. Co. from a final decree entered by the Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said Court; paper-book of Appellant. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. no place, 1883. 158 pp., 9 x 6, pap.

203 ——Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Shamokin, Sunbury & Lewisburg R. R. Co. *vs.* Northern Central Ry. Co. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the Shamokin, Sunbury & Lewisburg R. R. no place, 1883. 73 pp., pl., 9 x 6, pap.

258 **NORTHERN CROSS R. R.** Memorial asking Congress to grant to the State of Illinois the alternate sections of land for six miles on each side of the N. C. R. R. for the sole purpose of completing said road. Illinois-General Assembly. (28th Cong., 1st Sess. House doc. 190.) Wash., 1844. 4 pp., 9 x 6, pap.

174 ——Resolutions to obtain a grant of land for the construction of the N. C. R. R. Illinois-General Assembly. (28th Cong., 1st Sess. Senate No. 83.) Wash., 1844. 4 pp., 9 x 6, pap.

21 **NORTHERN PACIFIC R. R.** Charter and amendments of the N. P. R. R. Co., approved July 2d, 1864. U. S.-Congress. Burlington, Vt., 1870. 61 pp., map, 9 x 6, pap.

22 ——Summary of the arguments made before the respective Committees on Public Lands of the Senate and House of Representatives on the legal question of forfeiture by the N. P. R. R. Co. George Gray. Wash., 1884. 28 pp., 9 x 6, pap.

49 **OHIO.** Laws relating to railroads, passed during the session ending Apr. 20th, 1874. Columbus, 1874. 10 pp., 9 x 6, pap.

186 ——Several acts conferring authority upon the Commissioner of Railroads and Telegraphs of Ohio, defining the duties of the office, etc., also the laws relating to railroads, passed at the session ending Apr. 12th, 1876. Columbus, 1876. 16 pp., 10 x 7, pap.

——Laws of Ohio and of Congress relative to railroads and telegraphs; and charters of the various companies; with notes of decisions, etc. 1870. (See Ah-4, v. 1.)

222 **OHIO & MISSISSIPPI RY.** Act to incorporate the O. & M. Ry. Co., approved Feb. 5th, 1861; Act to incorporate the O. & M. R. R. Co., approved Feb. 12th, 1851, and Acts amendatory thereof; and by-laws of the O. & M. Ry. Co. adopted June 15th, 1863. Illinois-General Assembly. St. Louis, 1863. 37 pp., 9 x 6, pap.

OHIO & PENNSYLVANIA R. R. Charter of the O. & P. R. R. Co., embracing the several acts of the Legislatures of Ohio and Pennsylvania relating thereto. Pittsburg, 1849. 16 pp., 9 x 5, b. p. Ag-8, p. 29.

208 **PACIFIC R. R.** Charter of the P. R. R. Missouri-General Assembly. St. Louis, 1851. 18 pp., 9 x 6, pap.

217 ——Documents exhibiting the organization, condition and relations of the . . . railroad. N. Y., 1853. 75 pp., map, 9 x 5, b. p.

52 ——Grant of lands by the United States to the State of Missouri for railroad purposes; and acts passed by the Legislature of Missouri affecting the Southwestern Branch of the P. R. R.; also constitutional amendment limiting the state debt to thirty millions of dollars. U. S.-Congress. St. Louis, 1859. 50 pp., 9 x 6, pap.

Af—(*Continued*).

204 ——Laws, etc., concerning the Railroad and the Southwest Branch of said road; opinion of the Supreme Court upon the validity of the law for the aid of railroads; notice of the lands belonging to the company; notice of state bonds and provisions made for payment of same, etc. N. Y., 1856. 76 pp., 9 x 6, pap.

7 ——Memorial of the President and Directors to the General Assembly of the State of Missouri. Jefferson City, Mo., 1852. 24 pp., 9 x 5, b. p.

24 ——Speech in the Senate of Missouri, urging a grant of land to the P. R. R. Co., Sept. 6th, 1852. Thomas Allen. 7 pp., 10 x 6, pap. no title-page.

233 **PANAMA R. R.** Memorial to Congress in reference to the construction of a railroad across the Isthmus of Panama. W. H. Aspinwall and others. (30th Cong., 2d Sess. Senate, misc. doc. 1.) Wash., 1848. 4 pp., 9 x 6, pap.

238 ——Papers relating to the proposed railroad across the Isthmus of Panama; submitted to the Senate, Dec. 19th, 1848. T. H. Benton. (30th Cong., 2d Sess. Senate, misc. No. 6.) Wash., no date. 84 pp., 9 x 6, pap.

3 ——Report by the Committee on Naval Affairs relative to the "memorial of William H. Aspinwall, John L. Stevens and Henry Chauncey, praying aid from the Government of the United States to construct a railroad across the Isthmus of Panama." (30th Cong., 2d Sess. House rep., No. 26.) no place, 1849. 46 pp., 9 x 6, b. p.

2 **PATERSON & HUDSON RIVER R. R.** Opinion on motion for injunction; Richard P. Thompson, Attorney General, David J. Anderson and John B. Aycrigg, complainants, and the P. & H. R. R. R. Co., the New York & Erie R. R. Co., and Thomas Addis Emmet, defendants. Benjamin Williamson. N. Y., 1852. 10 pp., 8 x 5, b. p.

43 **PENNSYLVANIA & COLUMBIA R. R.** Documents referring to the controversy between the Canal Commissioners of the State of Pennsylvania and the Harrisburg & Lancaster, and the Pennsylvania R. R. Cos.; with remarks upon the relative position of the state improvements and the Pennsylvania Railroad. H. Haupt, comp. Phil., 1852. 58 pp., 9 x 6, pap.

245 **PENNSYLVANIA R. R. CO.** and Erie & Pittsburgh R. R. Co. *vs.* Sharpsville R. R. Co. Common Pleas Court of Mercer County, Pa., in equity; No. 2 of August Term, 1876. Note: Relative to the proposed crossing, near Sharpsville, of the Erie & Pittsburgh R. R. by the Sharpsville R. R. Cleveland, 1878. various pagings, map, 9 x 6, sh.

44 ——and others. Agreement. Note: Relative to the indebtedness of the Allegheny Valley R. R. Co. Phil., 1874. 9 pp., 9 x 6, pap.

46 ——By-laws of the Board of Directors; together with the Charter of the Company and its supplements. Phil., 1853. 65 pp., 9 x 6, pap.

47 ——Charter and supplements of the P. R. R. Co., with the acts of the Assembly and Municipal ordinances affecting the company; together with the by-laws of the Board of Directors. Pennsylvania-General Assembly. Phil., 1859. 141 pp., 9 x 6, pap.

43 ——Documents referring to the controversy between the Canal Commissioners of the State of Pennsylvania and the Harrisburg & Lancaster and the P. R. R. Cos.; with remarks upon the relative position of the state improvements and the P. R. R. Phil., 1852. 58 pp., 9 x 6, pap.

280 ——In the Supreme Court of Pennsylvania in equity: Answer and exhibits of respondents. Robert Wightman *vs.* P. R. R. Co. Pittsburg, 1854. 28 pp., 9 x 6, pap.

51 ——and Cleveland & Pittsburg R. R. Co. Lease, Oct. 25th, 1871; to take effect Dec. 1st, 1871. Cleveland, 1871. 31 pp., 9 x 6, pap.

182 ——Pennsylvania system of fast freight lines as exemplified by the Union Line and the Empire Line operating between the Atlantic cities and the great West over the Pennsylvania and the Philadelphia & Erie Railroads and the Western Railways connecting therewith: A record of facts authenticated by the official investigations and reports of the Committee of the Legislature of Pennsylvania, the Committee of the Stockholders of the Pennsylvania Railroad Co., and the testimony and reports of the officers of connecting roads. Pennsylvania-General Assembly. Phil., 1867. 118 pp., 9 x 6, pap.

276 **PERU.** Coleccion de leyes, decretos, contratos y demas documéntos relativos a los ferrocarriles del Peru. Lima, 1871. 3 v. in 1, 8 x 5, ¾ mor.

281 **PHILADELPHIA & ERIE R. R. CO.** and another *vs.* The Catawissa R. R. Co. and others. Affidavits for defendants; in the Supreme Court of Pennsylvania, Eastern District, January Term, 1866. Phil., 1866. 14 pp., 6 tab., 9 x 6, pap.

282 ——*et al. vs.* The Catawissa R. R. Co. *et al.* In Supreme Court, in equity; authorities, Acts of Assembly, etc., cited and referred to, by . . . Biddle and . . . Walker. Phil., no date. 42 pp., 9 x 6, pap.

9 ——and the Pennsylvania R. R. Co. *vs.* Catawissa R. R. Co., Western Central R. R. Co. and Atlantic & Great Western Ry. Co. Proceedings and testimony of the suit between these companies, tried in the Supreme Court of Pa., 1866; and proceedings and testimony of the suit of Andrew Scott *vs.* the A. & G. W. Ry. Co., the C. R. R. Co. and the W. C. R. R. Co. no place, 1866. 476 pp., pl., 9 x 6, cl. no title-page.

Af—(*Continued*).

39 **PHILADELPHIA & READING R. R.** Argument before the Judiciary Committee of the Senate of Pennsylvania on behalf of the railroad and mining interests of Pennsylvania, Mar. 30th, 1871. F. B. Gowen. Phil., 1871. 38 pp., 9 x 6, pap.

288 ——and Catawissa R. R. Co. against North & West Branch Ry. Co. In the Court of Common Pleas of Columbia County; Bill in equity. Bloomsburg, Pa., 1869. 188 pp., 9 x 6, b. p.

285 ——*vs.* East Pennsylvania R. R. Co. and others. Examiner's report, affidavits and exhibits; in the Supreme Court of Pennsylvania. Note: Relative to the illegal issue of certain shares of stock. no place, 1868. 50 + 23 pp., 9 x 6, pap.

284 ——Report of the trial of F. P. Hill, late a conductor on the P. & R. R. R., on a charge of embezzling the funds of that company in his capacity as conductor. Chic., 1864. 60 pp., 9 x 6, pap.

278 ——*vs.* East Pennsylvania R. R. Co. *et al.* Supreme Court of Pennsylvania, Eastern District, Bill in equity. Note: Relative to the illegal issue of certain shares of stock. 4 pp., 9 x 6, pap. no title-page.

262 ——*vs.* Commonwealth of Pennsylvania. Supreme Court of Pennsylvania, Middle District; tonnage tax case: Paper book of defendants in error. Phil., no date. 19 pp., 9 x 6, pap.

PHILADELPHIA, EASTON & WATER GAP R. R. Argument in favor of the constitutionality of the subscription by the City of Philadelphia to the capital stock of the Hempfield, and P., E. & W. G. R. R. Cos.: Delivered before the Supreme Court of Pennsylvania, July 24th, 1858; in the case of Sharpless and others *vs.* the Mayor, aldermen and citizens of Philadelphia. J. M. Read. Phil., 1858. 31 pp., 9 x 6, b. p. Ag-5. p. 817.

——In the Supreme Court of Pennsylvania, in equity: Answer of defendants; and appendix to argument of defendants; laws authorizing municipal subscriptions to public works. W. P. Sharpless and others *vs.* Mayor of the City of Philadelphia and others. 112 + 82 pp., 9 x 6, b. p. no title-page. Ad-96, p. 608.

50 **PITTSBURGH & CONNELLSVILLE R. R.** Laws relating to the P. & C. R. R. Co. Pennsylvania-General Assembly. Pittsburg, 1858. 17 pp., 9 x 6, pap.

23 **PITTSBURGH RAILROAD & COAL CO.** Charter and amendments of the P. R. R. & C. Co., by the Illinois General Assembly; together with a report on their coal lands and other property and a plan of organization. St. Louis, 1864. 19 pp., 8 x 5, pap.

5 **PLATTSBURG & MONTREAL R. R.** Counter statement, addressed to the Legislature and Public of Canada. Note: Reply to the statement of the Champlain & St. Lawrence R. R. Co. Relates to proposed legislation. Montreal, 1855. 29 pp., 8 x 5, b. p.

26 **PORT SULLIVAN, BELTON & NORTHWESTERN R. R.** Charter, organization and transfer to a general agent; together with the cost of construction, expense of operating, and net earnings per year. Galveston, Tex., 1869. 18 pp., 9 x 6, pap.

162 **PROVIDENCE & WORCESTER R. R. CO.** and Earl P. Mason *vs.* Charles F. Pike. Minutes of Charles Hart, Master in Chancery. no place, 1874. 3 pp., 9 x 6, pap. no title-page.

210 **PROVIDENCE, WARREN & BRISTOL R. R.** Charter and by-laws. Providence, 1853. 30 pp., 7 x 5, pap.

29 **RICHMOND & WASHINGTON R. R.** Proceedings of the Senate Committee on Roads and Internal Navigation as to Senate bill, No. 81, to incorporate the R. & W. R. R. Co.; with documents relating thereto in an appendix. Virginia-General Assembly. Richmond, Va., 1877. 235 + 27 pp., 9 x 6, pap.

SACKET HARBOR & SARATOGA R. R. Memorial to the Legislature of the State of New York, asking authority to improve the navigation of lakes and rivers in northern New York. no place, 1855. 18 pp., 9 x 6, b. p. Ag-5, p. 123.

27 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Charter of the St. L., A. & T. H. R. R. Co., Terre Haute & Alton R. R Co., Belleville & Illinoistown R. R. Co.. with the several amendments thereto, and the general railroad law of the State of Illinois. Illinois-General Assembly. St. Louis, 1863. 71 pp., 9 x 6, pap.

10 ——*vs.* Indianapolis & St. Louis R. R. Co. and others. Record of Case No. 6257 in Chancery in the Circuit Court of the United States for the District of Indiana; including pleadings, opinions of Judges Gresham and Drummond, and depositions of witnesses. St. Louis, no date. 383 pp., 9 x 6, pap.

SAN ANTONIO RY. Act supplementary to an act to incorporate the S. A. Ry. Co., approved Sept. 5th, 1850. Texas-Legislature. (See Ag-7, p. 494.)

172 **SARATOGA & HUDSON RIVER R. R. CO.** and New York Central R. R. Co. Lease, Mar. 7th, 1867. Albany, 1867. 14 pp., 9 x 6, pap.

205 **SEABOARD & RALEIGH R. R.** Charter of the S. & R. R. R. Co. of North Carolina; with report of Engineer. North Carolina-General Assembly. N. Y., 1874. 24 pp., map, 9 x 6. pap.

279 **SELMA & GULF R. R.** First mortgage, 8 per cent. gold bonds; guaranteed, principal and interest, by the State of Alabama. N. Y., 1870. 23 pp., map, 9 x 6, pap.

Af—(*Continued*).

188 **SHAMOKIN, SUNBURY & LEWISBURG R. R. CO. *vs.* NORTHERN CENTRAL RY. CO.** Appeal of the N. C. Ry. Co. from a final decree entered by the Common Pleas of Northumberland County on the 5th day of February, 1883, in a case in equity in said Court; paper-book of Appellant. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. no place, 1883. 138 pp., 9 x 6, pap.

268 ——Appeal of the N. C. Ry. Co. from a final decree entered by the Court of Common Pleas of Northumberland County in a case in equity; counter statement of Appellee. Note: Case relates to the crossing at grade of the tracks of the N. C. Ry. by the S., S. & L. R. R. no place, 1883. 73 pp., pl., 9 x 6, pap.

270 ——Common Pleas of Northumberland County: In equity; testimony taken Aug. 8th to 11th, 1882. Note: Case relative to the crossing of the railroads at Sunbury. Sunbury, Pa., 1882. 2 v., 9 x 6, 12 x 9; pap., bds.

19 **SMITH, H. B.** Bill to provide for the construction of a national railroad between the Cities of New York and Chicago; introduced in the House of Representatives, Jan. 15th, 1872. no place, 1872. 9 pp., 11 x 8, pap.

12 **SOMERVILLE & EASTON R. R.** Act to incorporate the S. & E. R. R. Co. New Jersey-Legislature. Elizabethtown, 1847. 14 pp., 8 x 5, b. p.

208 **SONORA RY. CO., LIMITED.** Massachusetts laws; Mexican concessions; first mortgage deed; by-laws. Note: Printed in both English and Spanish. no place, 1882. 143 pp., 9 x 6, pap.

167 **SOUTHERN VERMONT R. R.** Report relative to the conveyances of the S. V. R. R. Mass.-Attorney General. (Mass., Senate No. 157, 1862.) no place, 1862. 28 pp., 10 x 6, pap.

SOUTHWESTERN R. R. BANK. Charter of the Louisville, Cincinnati & Charleston R. R. Co. as passed by the Legislatures of Kentucky, Tennessee, North and South Carolina, with the amendments; also the charter of the Southwestern R. R. Bank, and the by-laws. Charleston, 1838. 32 pp., 9 x 5, b. p. Ab-362, p. 413.

SUNBURY & ERIE R. R. By-laws of the Board of Managers; together with the charter and its supplements. 1852. (See Ae-148.)

28 **SUSSEX & WARREN R. R.** Charter, supplements and by-laws of the S. & W. R. R. Co. New Jersey-Legislature. N. Y., 1861. 22 pp., 9 x 6, pap.

TEHUANTEPEC RY. Location, features and advantages of the company under the La Sere Grant. 1869. (See Ab-19.)

177 ——Petition offering to Congress the advantages of a railroad across the Isthmus of Tehuantepec and praying that Congress, before its final action on the subject, will allow time for establishing the facts therein stated. P. A. Hargous. (30th Cong., 2d Sess. Senate, misc. No. 50.) Wash., 1849. 4 pp., 9 x 6, pap.

199 ——Tehuantepec Railway, 1879; grant to Edward Learned of Pittsfield, Mass., for construction of railways and telegraph lines; with control of ports on both sides of the Isthmus, June 24th, 1879. Mexico-Congress. Note: Printed in both Spanish and English. N. Y., 1879. 49 pp., 9 x 6, pap.

197 **TEHUANTEPEC SHIP RY.** Concession to James B. Eads for the construction of a ship railway across the Isthmus of Tehuantepec, May 28th, 1881. Mexico-Congress. St. Louis, 1881. 15 pp., 9 x 6, pap.

198 ——Concession to James B. Eads and his associates. Mexico-Congress. Wash., no date. 17 pp., 9 x 6, pap.

TEXAS & LOUISIANA R. R. Act to incorporate the T. & L. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 470.)

185 **TEXAS & PACIFIC RY.** Argument of the President of the T. & P. Ry. Co., before the meeting of the Senate Railroad Committee, held Dec. 14th, 1874, on behalf of the bill presented to the Senate for the construction of the southern route to the Pacific. T. A. Scott. 9 pp., 9 x 6, pap. no title-page.

TEXAS CENTRAL R. R. Act to incorporate the T. C. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 464.)

TEXAS WESTERN R. R. Act to establish the New Orleans, Texas & Pacific Ry. Co., for the extension of the New Orleans, Algiers & Opelousas Ry. through Texas. 1852. (See Ag-7, p. 552.)

——Act to incorporate the T. W. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 517.)

280 ——Charter of the T. W. R. R. Co.; and extracts from reports of A. B. Gray and Secretary of War, on the survey from eastern borders of Texas to California; nature of country and climate, mineral and agricultural resources, etc. Cin., 1855. 40 pp., map, 9 x 5, b. p.

TREVORTON, MAHANOY & SUSQUEHANNA R. R. Charter of the T., M. & S. R. R. Co. no place, 1850. 15 pp., 9 x 6, b. p. Ag-4, p. 451.

102 **TROY & GREENFIELD R. R. and HOOSAC TUNNEL CO.** Abstract of remarks on the bills concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 17th, 1862. W. D. Northend. Bost., 1862. 15 pp., 9 x 6, pap.

Af—(*Continued*).

68 ——Act authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-General Court. no place, 1854. 7 pp., 9 x 6, pap.

81 ——Act authorizing a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-General Court. no place, 1859. 6 pp., 9 x 6, pap.

90 ——Act authorizing the City of Boston to subscribe to the capital stock of the T. & G. R. R. Co. Mass.-General Court. Note: Substituted for Senate Bill, No. 48. no place, 1860. 2 pp., 9 x 6, pap.

148 ——Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-General Court. no place. 1868. 4 pp., 9 x 6, pap.

115 ——Address, January, 1865. Mass.-Governor. Note: That portion of the Governor's address to the Senate relating to the construction of the Hoosac Tunnel. pp. 33-38, 9 x 6, pap. no title-page.

88 ——Amendment of Senate Bill, No. 25, entitled an act authorizing a loan of the state credit, to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1859. 9 pp., 9 x 6, pap.

129 ——Amendment to the bill in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel, to be inserted in place of the portion following the enacting clause. F. W. Bird. no place, 1867. 2 pp., 9 x 6, pap.

70 ——Amendment to the bill "authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel." (House doc. 107.) Washburn. no place, 1854. 3 pp., 9 x 6, pap.

105 ——Amendment to the bill concerning the T. & G. R. R. Co., to be inserted instead of the portion following the enacting clause. W. D. Swan. no place, 1862. 4 pp., 9 x 6, pap.

69 ——Amendments to the bill "authorizing a loan of state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel." Russell. (House doc. No. 107.) no place, 1854. 2 pp., 9 x 6, pap.

73 ——Answer to some of the objections made against the memorial of the T. & G. R. R. Co. Bost., 1857. 14 pp., 9 x 6, pap.

108 ——Argument before the Joint Special Committee on the T. & G. R. R., Apr. 1st, 1863. D. S. Richardson. Bost., 1863. 14 pp., 9 x 6, pap.

157 ——Bill entitled an act to authorize the Governor and Council to expend a sum not exceeding three hundred thousand dollars, in constructing archways in the Hoosac Tunnel and for other purposes. Mass.-Senate. Note: Substituted for House Bill, No. 305. no place, 1874. 2 pp., 9 x 6, pap.

84 ——Bill entitled an Act in addition to an act to authorize a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel: A substitute for the Senate bill in addition to an act authorizing a loan of the state credit, etc. Paige. no place, 1859. 7 pp., 9 x 6, pap.

85 ——Bill entitled an Act in addition to an act authorizing a loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel; an amendment to the substitute offered by Mr. Paige, of Brimfield, to the Senate Bill with the same title. Stearns. no place, 1859. 7 pp., 9 x 6, pap.

125 ——Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass. House. Note: Bill as amended and ordered to a third reading. no place, 1866. 2 pp., 9 x 6, pap.

151 ——Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-House. Note: Bill as amended and ordered to a third reading. no place, 1868. 6 pp., 9 x 6, pap.

149 ——Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Train. Note: Proposed as a substitute for House Bill, No. 339. no place, 1868. 3 pp., 9 x 6, pap.

104 ——Bill entitled an Act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel; introduced as a substitute for the original bill concerning the T. & G. R. R. Co. Williams. no place, 1862. 5 pp., 9 x 6, pap.

150 ——Bill entitled an Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel, with various amendments. Mass.-House. no place, 1868. 6 pp., 9 x 6, pap.

82 ——Bill entitled an Act to modify the one of 1854, granting aid to construct the Hoosac Tunnel. Mass.-Senate. Note: Proposed as a substitute for the bill reported by the committee. no place, 1859. 5 pp., 9 x 6, pap.

116 ——Bill reported in answer to that part of the Governor's address which relates to the subject of the T. & G. R. R. and Hoosac Tunnel, suggesting additional legislation for the purpose of encouraging a vigorous prosecution of the work upon the road and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.

Af—(*Continued*).

108 ——Bill reported in answer to the question of the bill relating to the T. & G. R. R., with the amendments pending, together with the petitions and remonstrances. Mass.-Senate. Note: Bill provides for the speedy completion of the T. & G. R. R. and Hoosac Tunnel. no place, 1862. 5 pp., 9 x 6, pap.

56 ——By-laws, acts of incorporation, loan bill, etc. no place, no date. 27 pp., 9 x 5, pap.

137 ——Claim of H. Haupt & Co.: Statement of case by claimants, explanatory of positions assumed by Commissioners and by the Tunnel Committee, to the Senators and Representatives of the Commonwealth of Massachusetts. Herman Haupt. 13 pp., 9 x 6, pap. no title-page.

96 ——Closing argument on behalf of the T. & G. R. R. Co. before the Joint Special Committee of the Senate and House of Representatives of Massachusetts, at a public hearing, Mar. 6th, 1862, including his reply to Ex-Governor Boutwell, the Counsel of F. W. Bird, and other memorialists, in opposition. Herman Haupt. Bost., 1862. 38 pp., 9 x 6, pap.

98 ——Communication to the Governor and Council of the State of Massachusetts, containing a review of the report of the Committee of Investigation on the Hoosac Tunnel Loan; certificates and affidavits; also, a report of the Chief Engineer of the T. & G. R. R. Co., on the characteristics of the road, and principles of location. H. Haupt. Greenfield, Mass., 1860. 24 pp., 9 x 6, pap.

127 ——Communication to the President of the Senate of Massachusetts, on the subject of the T. & G. R. R. and Hoosac Tunnel, with a view to correct the serious errors in the report of the Chairman of the Joint Standing Committee of 1866. Herman Haupt. Boston., 1867. 20 pp., 9 x 6, pap.

130 ——Communication to the Senators and Representatives of the Commonwealth of Massachusetts relative to the claims of H. Haupt & Co., in connection with the Hoosac Tunnel. Herman Haupt. Bost., 1867. 22 pp., 9 x 6, pap.

87 ——Final settlement of the claim of H. Haupt & Co. against the State of Massachusetts: The liberality of "a generous and opulent commonwealth" exhibited. H. Haupt. Bost., 1869. 20 pp., 9 x 6, pap.

61 ——Hoosac Tunnel: A brief report of the hearing of the T. & G. R. R. Co., petitioners for a loan of two millions. Mass.-Joint Special Committee on T. & G. R. R. Bost., 1854. 89 + 1 pp., 10 x 6, pap.

95 ——Hoosac Tunnel and T. & G. R. R. D. L. Harris. Note: Report to the Committee on T. & G. R. R. no place, 1862. 24 pp., 9 x 6, pap.

——Hoosac Tunnel; the memorial of the Western R. R. Corporation, relating to the application of the T. & G. R. R. for a state loan of two millions of dollars. Bost., 1853. 25 pp., 9 x 6, b. p. Ad-4, p. 507.

147 ——Letter to the Governor and Honorable Council of the Commonwealth of Massachusetts relative to the progress and condition of the work upon the T. & G. R. R. and Hoosac Tunnel and the acts and doings of the Commission during the past year. Charles Hudson. Bost., 1868. 16 pp., 9 x 6, pap.

62 ——Memorial relating to the application of the T. & G. R. R. for a state loan of two millions of dollars. Western R. R. Corporation. Note: Made to the General Court of Massachusetts. Bost., 1853. 25 pp., 9 x 6, pap.

68 ——Memorial relating to the application of the T. & G. R. R. for a state loan of $2 000 000. Western Railroad Corporation. Note: Made to the General Court of Massachusetts. Bost., 1854. 8 pp., 9 x 6, pap.

86 ——Memorial to the House of Representatives of Massachusetts. D. L. Harris. Note: Memorial begging for a more careful consideration of the subject of the proposed Hoosac Tunnel, before passing the bill authorizing a loan of two millions of dollars to the T. & G. R. R. Co. Bost., 1859. 6 pp., 9 x 6, pap.

133 ——Memorial to the Senate and House of Representatives of Massachusetts. Note: Prays for repayment of money expended upon the Hoosac Tunnel. no place, 1868. 16 pp., 9 x 6, pap. no title-page.

63 ——Memorial to the Senate and House of Representatives of Massachusetts, asking for a loan of two millions of dollars, to enable them to tunnel the Hoosac Mountain. no place, 1854. 2 pp., 9 x 6, pap.

106 ——Memorial to the Senate and House of Representatives of the Commonwealth of Massachusetts, protesting against the report and acts of the Commissioners, in relation to the T. & G. R. R. and Hoosac Tunnel. Herman Haupt. no place, 1863. 81 pp., 9 x 6, pap.

118 ——Memorial to the Senate and House of the Commonwealth of Massachusetts. Herman Haupt. Note: Memorial asking for a withdrawal of the decision of the Supreme Court of Massachusetts, holding him responsible for and liable to be called upon to repay to the state the amount of an alleged overissue of scrip to the T. & G. R. R. Co. no place, 1866. 11 pp., 9 x 6, pap.

77 ——Message to the House of Representatives, May 26th, 1857. Mass.-Governor. Note: Message accompanying veto of a bill authorizing the loan of the state credit to enable the T. & G. R. R. Co. to construct the Hoosac Tunnel. Bost., 1862. 15 pp., 10 x 6, pap.

Af—(*Continued*).

155 ——Minority report upon "an Act to provide for the consolidation of the Hoosac Tunnel Line of railroads from Boston to Troy," and the petition of the Boston & Lowell R. R. Co., for amendment of the charter of the Great Northern Railroad, and many petitions and remonstrances relative to the disposal of the T. & G. R. R. and Hoosac Tunnel. Mass.-Committee on Railways. no place, 1873. 21 pp., 9 x 6, pap.

74 ——Petition to the Senate and House of Representatives of the Commonwealth of Massachusetts. Note: Memorial asking to be released from the obligation of finishing the Eastern Division of the railroad in one continuous line. no place, 1857. 5 pp., 9 x 6, pap.

152 ——Petition to the Senate and House of Representatives relative to the contract for the completion of the Hoosac Tunnel. Carpenter, Odiorne and Gardner. Bost., 1869. 3 pp., 9 x 6, pap.

91 ——Preamble and resolutions, and Memorial to the Legislature of Massachusetts setting forth the reasons why Senate Bill, No. 47, is essential to permit the continued prosecution of the work upon the T. & G. R. R. and Hoosac Tunnel. 4 pp., 9 x 5, pap. no title-page.

135 ——Report, in form of a bill "to provide for funding the unfunded debt created in the construction of the T. & G. R. R. and the Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 5 pp., 9 x 6, pap.

117 ——Report, in form of a bill, upon "the report of the T. & G. R. R. and Hoosac Tunnel, by the Joint Special Committee of 1864." Mass.-Joint Special Committee on T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.

161 ——Report, in part in the form of a bill, upon the petition of Edward Hamilton relative to appropriations for the T. & G. R. R. and Hoosac Tunnel, the business management and the duties of connecting roads. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1879. 3 pp., 9 x 6, pap.

75 ——Report in reference to the petition of the T. & G. R. R. Co. for a modification of the Act of the Legislature, approved Apr. 5th, 1854, granting the credit of the state to aid said company in the construction of their road. Mass.-Joint Standing Committee on Railways and Canals. no place, 1857. 43 pp., 9 x 6, pap.

58 ——Report, in the form of bill, relative to the petition of T. & G. R. R. Co., praying for aid of the state to construct a tunnel through Hoosac Mountain. Mass.-Joint Standing Committee on Railways and Canals. no place, 1851. 12 pp., 9 x 6, pap.

89 ——Report, in the form of a bill, relative to the petitions of citizens of Boston asking for subscription to the capital stock of the T. & G. R. R. Co., and sundry petitions in aid thereof. Mass.-Joint Standing Committee on Railways and Canals. no place, 1860. 6 pp., 9 x 6, pap.

109 ——Report, in the form of a bill, providing for the more speedy completion of the railroad and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1863. 6 pp., 9 x 6, pap.

120 ——Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., and also the report of the Commissioners on the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1866. 3 pp., 9 x 6, pap.

114 ——Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., also his message transmitting the report of the Hoosac Tunnel Commissioners, etc., and suggesting additional legislation for the purpose of encouraging a vigorous prosecution of the work upon the road and tunnel. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1865. 3 pp., 9 x 6, pap.

145 ——Report, in the form of a bill, upon so much of the Governor's address as relates to the T. & G. R. R., and also the report of the Commissioner on the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1868. 3 pp., 9 x 6, pap.

160 ——Report, in the form of a bill, upon the order relative to legislation as to the manner of accounting to the State Treasurer and Auditor for receipts, and for expenses incurred in connection with the T. & G. R. R. and Hoosac Tunnel. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1879. 3 pp., 9 x 6, pap.

159 ——Report, in the form of a new draft, upon the bill to permit the establishment of a union freight depot in Greenfield. Mass.-(House) Committee on Finance. no place, 1878. 3 pp., 9 x 6, pap.

78 ——Report of a Committee of the Council, and other papers relating to the Hoosac Tunnel. Mass.-Executive Council. Bost., 1859. 13 pp., 9 x 6, pap.

87 ——Report of a Special Committee of Five, appointed to inquire what payments, if any, have been made under the several acts granting aid to the T. & G. R. R. Co.; and whether, or not, all the requirements of said acts authorizing such payments have been fully complied with. Mass.-House. no place, 1860. 34 + 70 pp., 9 x 6, pap.

Af—(*Continued*).

94 ——Report of the Committee on the memorial of the T. & G. R. R. Co., with the evidence before said Committee. Mass.-Executive Council. Bost., 1861. 64 pp., 9 x 6, pap.

136 ——Report of the Committee to whom was referred the memorial of Herman Haupt & Co. asking leave to be discharged from further consideration of the subject, that the views of the different parts of the Committee be printed and that the whole matter be referred to the Committee on Finance. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1868. 9 pp., 9 x 6, pap.

144 ——Report of the Committee to whom was referred the message of the Governor, relative to communications received by him concerning the Hoosac Tunnel. Mass.-House. no place, 1868. 2 pp., 9 x 6, pap.

76 ——Report of the Joint Special Committee in answer to the order of Mr. Hyde, of Newton, directing the Committee to visit the Hoosac Tunnel and report, as soon as practical, any information they may obtain, which, in their opinion, will be useful in considering the measures now before the Legislature proposing to alter the terms of the Loan Act of 1854, in aid of the T. & G. R. R. Co. no place, 1857. 4 pp., 9 x 6, pap.

98 ——Report of the Special Committee appointed under an order dated Jan. 30th, 1860, relating to payments made to the T. & G. R. R. Co., under the several acts granting state aid to said company, in the form of a new draft upon Senate Bill, No. 47. Mass.-House. no place, 1860. 10 pp., 9 x 6, pap.

80 ——Report relative to the petition of the T. & G. R. R. Co., asking for a modification of the Act of the Legislature approved Apr. 5th, 1854, granting the credit of the state to aid said company in the construction of the Hoosac Tunnel. Mass.-Joint Standing Committee on Railways and Canals. no place, 1859. 11 pp., 9 x 6, pap.

113 ——Report transmitting a copy of the opinion of the Supreme Judicial Court, rendered in the case of "The Commonwealth *vs.* J. V. C. Smith and others, Trustees." Mass.-Governor. Note: The point of the decision is that the mortgage of the T. & G. R. R. to said Smith and others is invalid, and constitutes no lien upon the roads. Bost., 1865. 7 pp., 9 x 6, pap.

112 ——Report upon so much of the Governor's address as relates to the T. & G. R. R. and Hoosac Tunnel, and certain orders relating to the same, and also the memorial of Herman Haupt. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1864. 3 pp., 9 x 6, pap.

97 ——Report upon so much of the Governor's address as relates to the T. & G. R. R., the memorials of F. W. Bird and others, and the order of Jan. 31st, 1862. Mass.-Joint Special Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1862. 17 pp., 9 x 6, pap.

88 ——Report upon the "Act concerning the T. & G. R. R. Co." in the form of a new draft of the bill. Mass.-Joint Standing Committee on Railways and Canals. no place, 1860. 4 pp., 9 x 6, pap.

146 ——Report upon the Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 2 pp., 9 x 6, pap.

128 ——Report upon the Act in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel: and copy of the act. Mass.-(House) Committee on Finance. no place, 1867. 2 pp., 9 x 6, pap.

124 ——Report upon the Bill "in further addition to an act providing for the more speedy completion of the T. & G. R. R. and Hoosac Tunnel." Mass.-(House) Committee on Finance. Note: Report takes the form of a new draft of the bill, amended. no place, 1866. 17 pp., 9 x 6, pap.

156 ——Report upon the Bill "to incorporate the Boston & North-Western R. R. Co., to provide for the operation and management of the Hoosac Tunnel, and for other purposes," recommending the adoption of certain amendments. Mass.-(House) Committee on Finance. no place, 1873. 3 pp., 9 x 6, pap.

141 ——Report upon the House resolve, appropriating the sum of fifty-three thousand dollars to Herman Haupt & Co. Mass.-(Senate) Committee on the Treasury. no place, 1868. 5 pp., 9 x 6, pap.

119 ——Report upon the Memorial of Herman Haupt, in relation to the T. & G. R. R. and Hoosac Tunnel, and also the petitions of Henry Cartwright and others for compensation for expenses incurred upon said railroad and tunnel. Mass.-(Senate) Committee on T. & G. R. R. and Hoosac Tunnel. Bost., 1866. 2 pp., 9 x 6, pap.

72 ——Report upon the petition of the T. & G. R. R. Corporation. Mass.-Joint Standing Committee on the T. & G. R. R. and Hoosac Tunnel. no place, 1856. 90 pp., 9 x 6, pap.

71 ——Report upon the petitions of the T. & G. R. R. Co. and of sundry towns upon the line of said road, praying for an act to authorize said towns to take stock in said road. Mass.-Joint Standing Committee on Railways and Canals. no place, 1855. 3 pp., 9 x 6, pap.

Af—(*Continued*).

139 ——Report upon the resolve in favor of Herman Haupt & Co., relative to the T. & G. R. R. and Hoosac Tunnel. Mass.-(House) Committee on Finance. no place, 1868. 12 pp., 9 x 6, pap.

132 ——Report upon the resolve in favor of Herman Haupt, relative to the T. & G. R. R. and Hoosac Tunnel; and the resolve. Mass.-(House) Committee on Finance. no place, 1867. 2 pp., 9 x 6, pap.

140 ——Resolve relative to the claim of Herman Haupt & Co., authorizing them to institute a suit in equity against the Commonwealth, in the Supreme Judicial Court. Mass.-Senate. Note: Proposed as a substitute for the resolve (H) in favor of H. Haupt & Co. (House, No. 369.) no place, 1868. 1 p., 9 x 6, pap.

67 ——Speech in the Massachusetts House of Representatives, Mar. 29th, 1854, on the Bill granting state credit to the amount of two millions of dollars to the T. & G. R. R. Co., for the purpose of tunneling Hoosac Mountain. H. G. Parker. 10 pp., 9 x 6, pap. no title-page.

99 ——Speech on the Bill concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 11th, 1862. Whiting Griswold. Bost., 1862. 28 pp., 9 x 6, pap.

100 ——Speech on the Bill concerning the T. & G. R. R. in the Senate of Massachusetts, Apr. 16th, 1862. W. D. Swan. Bost., 1862. 19 pp., 9 x 6, pap.

59 ——Speech on the Bill for loaning the credit of the state to the amount of two million dollars to the T. & G. R. R. Corporation for the purpose of tunneling the Hoosac Mountain; in the Senate of Massachusetts, Apr. 9th and 11th, 1851. Whiting Griswold. Bost., 1851. 20 pp., 9 x 6, pap.

60 ——Speech on the Bill for loaning the credit of the State to the amount of two millions of dollars, to the T. & G. R. R. Corporation for the purpose of tunneling Hoosac Mountain; in the Legislature of Massachusetts, May 8th, 1851. Otis Clapp. no place. 1851. 12 pp., 9 x 5, pap.

101 ——Speech on the T. & G. R. R. Bill; in the Massachusetts Senate, Apr. 16th, 1862. C. G. Loring. 15 pp., 9 x 6, pap. no title-page.

64 ——Tunnel hearing in 1854; "a brief report of the evidence of the petitioners for a loan to the T. & G. R. R. Co., of two millions." Mass.-Joint Special Committee on T. & G. R. R. Bost., 1854. 41 + 1 pp., 9 x 6, pap.

42 **TUBULAR TRANSIT CO. OF STATEN ISLAND.** Concessions by the State of New York and concessions by the State of New Jersey to Drake De Kay for the organization of the Tubular Transit Company of Staten Island, for the construction of tunnels under the Kill von Kull and under the Staten Island Sound, and other papers relating thereto N. Y.-Legislature. Note: Printed for private use only. N. Y., 1874. 22 pp., 9 x 6, pap.

81 **UNION PACIFIC R. R.** Act to aid in the construction of a railroad and telegraph line from the Missouri River to the Pacific Ocean. U. S.-Congress. Chic., 1862. 16 pp., 9 x 6, pap.

82 ——Act to aid in the construction of a railroad and telegraph line from the Missouri River to the Pacific Ocean, approved July 1st, 1862; with amendments. U. S.-Congress. N. Y., 1865. 45 pp., 9 x 6, pap.

80 ——Eastern Division. Argument in the matter of the U. P. Ry. Co., Eastern Division, before the Secretary of the Treasury. E. R. Meade. Wash., 1865. 20 pp., 9 x 6, pap.

84 ——*vs.* T. C. Durant. In the Supreme Court of New York: Papers and affidavits relating to the suit. Note: Suit brought to prevent the carrying out of the contract between the U. P. R. R. Co. and the Credit Mobilier. N. Y., 1867. 9 + 1 pp., 9 x 6, pap. no title-page.

53 ——Kansas Pacific *vs.* Union Pacific: Arguments on behalf of the Union Pacific Co. in the so-called *pro rata* controversy; with the report of Charles Devens, Attorney-General of the United States, Senator Chaffee's *Pro rata* Bill, etc. J. N. Rogers and others. Wash., 1878. 130 pp., map, 10 x 7, pap.

3 ——Memorial, praying for a grant of land to enable him to construct a railroad from Lake Michigan to the Pacific Ocean, Jan. 17th, 1848. Asa Whitney. (30th Cong., 1st Sess. Senate, misc. doc. No. 28.) Wash., 1848. 7 pp., map, 9 x 6, b. p.

237 ——Memorial to Congress praying a grant of public land to enable him to construct a railroad from Lake Michigan to the Pacific Ocean. Asa Whitney. (29th Cong., 1st Sess. Senate, doc. 161). Wash., 1846. 10 pp., map, 9 x 6, pap.

3 ——Memorial to Congress respecting a new route to the Pacific Ocean; with a plan for the transportation of despatches to Astoria in fifteen days; Feb. 15th, 1848. Robert Mills. (30th Cong., 1st Sess. Senate, misc., No. 51.) Wash., 1848. 7 pp., map, 9 x 6, b. p.

25 ——Opinions in the Pacific Railroad cases—Thurman Act; with material portions of the acts. U. S.-Supreme Court. N. Y., 1879. 66 pp., 9 x 6, pap.

33 ——Opinion on the validity and sufficiency in law of the first mortgage bonds of the U. P. R. R. Co. Daniel Lord. no place. 1866. 7 pp., 9 x 6, pap. no title-page.

235 ——Petition to Congress praying a charter for the purpose of constructing a line of telegraph from St. Louis to San Francisco. P. P. F. Degrand and others. (31st Cong., 1st Sess. Senate, misc. doc., 28.) Wash. 1850. 35 pp., 9 x 6, pap.

Af—(*Continued*).

——Project for a railroad to the Pacific; with reports of Committees of Congress, resolutions of State Legislatures, etc., and other facts relating thereto. Asa Whitney. N. Y., 1849. 112 pp., maps, 8 x 5, b. p. Aj 36, p. 153.

243 ——Report on a memorial of sundry citizens of Indiana, praying for the construction of a national railroad from the Mississippi to the Columbia River, and the Memorial of Asa Whitney, suggesting the means and submitting a proposition for the construction of such road from Lake Michigan to the Pacific Ocean. U. S.-(Senate) Committee on Public Lands. (29th Cong., 1st Sess. Senate, No. 466.) Wash. 1846. 51 pp., 9 x 6, pap.

254 ——Resolutions in relation to the construction of a railroad to the Pacific. Tenn.-Legislature. Wash., 1850. 2 pp., 9 x 6, pap.

234 ——Resolutions relative to Asa Whitney's plan of constructing a railroad from Lake Michigan to the Pacific Ocean. Penn.-General Assembly. (31st Cong., 1st Sess. Senate, misc. doc., 29.) Wash., 1850. 2 pp., 9 x 6, pap.

35 ——Statement in reply to the testimony of John B. Alley, taken on the 7th day of January, 1873, before the Committee appointed by the House of Representatives to investigate charges of bribery against members of Congress. T. C. Durant. N. Y., no date. 52 pp., 9 x 6, pap.

2 **UNION R. R. and NEW YORK & ERIE R. R.** Contracts and agreements. no place, 1852. 43 + 1 pp., 8 x 5, b. p.

38 **UNITED STATES.** Argument before the Committee of Commerce of the House of Representatives of the United States, on the Reagan Bill for the regulation of interstate commerce, Washington, Jan. 14th, 15th, 16th, 1880. Albert Fink. N. Y., 1880. 80 pp., 9 x 6, pap.

189 ——Argument before the Committee of Commerce of the Senate of the U. S. on the Reagan Bill for the regulation of interstate commerce. Albert Fink. N. Y., 1879. 28 pp., 9 x 6, pap.

55 ——Interstate Commerce Act of Feb. 4th, 1887, with a summary of its provisions. N. Y., 1887. 15 + 1 pp., 9 x 6, pap.

191 ——Railroad-mail pay: Remarks on Conference report, or Post-office Appropriation Bill in the House of Representatives, Friday, June 13th, 1884. R. G. Horr. (*Congressional Record*, 48th, Cong., 1st Sess., June 14th.) Wash., 1884. 4 pp., 12 x 9, pap.

6 **UTICA & SCHENECTADY R. R.** Charter of the U. & S. R. R. Co., with the subsequent laws relative thereto; and also the general acts of the Legislature on the subject of railroads. Albany, 1847. 58 pp., 9 x 6, b. p.

259 **VERMONT CENTRAL R. R.** V. C. R. R. accounting, 1875: Testimony; also arguments of Levi Underwood and Luke P. Poland, and report of the Special Masters. J. G. Smith and W. C. Smith. St. Albans, Vt., 1877. 183 + 175 pp., 8 x 6, pap.

VICKSBURG & EL PASO R. R. Act to incorporate the V. & El P. R. R. Co. Texas-Legislature. 1852. (See Ag-7, p. 531.)

VICKSBURG, SHREVEPORT & TEXAS R. R. Memorial of the President and Directors to the General Assembly of the State of Louisiana. 16 pp., 9 x 6, b. p. no title-page. Ag-7, p. 605.

VIRGINIA & TENNESSEE R. R. Speech on the V. & T. R. R. Bill; delivered by Joseph Segar in the House of Delegates, 23d and 24th Feb., 1849. Richmond, 1849. 48 pp., 9 x 6, b. p. Ad-1, p. 946.

WARSAW & ROCKFORD R. R. Charter of the W. & R. R. R. Co.; with reports of engineers and statistics of business on the Mississippi River above the lower rapids. St. Louis, 1853. 40 pp., 9 x 5, b. p. Ag-6, p. 571.

201 **WEST CHESTER & PHILADELPHIA R. R.** Acts of incorporation of the W. C. & P. R. R. Co., and the supplements thereto; with an appendix containing the "Act regulating railroad companies" approved Feb. 19th, 1849, and sections 2d and 3d of the supplement, approved Apr. 9th, 1856. Penn.-General Assembly. Phil., 1869. 54 pp., 9 x 6, pap.

WESTERN RAILROAD CORPORATION. Hoosac Tunnel; the Memorial of the W. R. R. Corporation relating to the application of the Troy & Greenfield R. R. for a state loan of two million of dollars. Bost., 1853. 25 pp., 9 x 6, b. p. Ad-4, p. 507.

187 **WHITEHAVEN RY.** Bill entitled "an Act to incorporate the Whitehaven Ry. Co., limited." Nova Scotia-Legislative Assembly. Note: This act passed the Legislature on 12th of Apr., 1877. no place, no date. unpaged, 13 x 8, pap. manuscript.

2 **WILLIAMSPORT & ELMIRA R. R. and NEW YORK & ERIE R. R.** Articles of agreement. no place, 1853. 7 pp., 8 x 5, b. p. no title-page.

WILMINGTON & MANCHESTER R. R. Joint acts to charter the W. & M. R. R. Co., passed by the States of South and North Carolina; also an Act to aid in the construction of the said railroad, passed by the Legislature of South Carolina. Wilmington, N. C., 1854. 30 pp., 9 x 6, b. p. Ah-26, p. 655.

WILMINGTON & READING R. R. By-laws of the Board of Directors; together with the charter of the company. 1867. (See Ae-78.)

Af—(*Continued*).

188 **WISCONSIN.** Compilation of the existing railroad laws of Wisconsin so far as they relate to rates of fare and freight. Railroad Commissioners, comp. Madison, 1876. 39 pp., 9 x 6, pap.

171 **WOODSTOCK & LAKE ERIE RY. & HARBOR CO.** Act to incorporate the W. & L. E. Ry. & H. Co.: Royal assent given in 1848. Canada-Parliament. (10 & 11 Victoriæ, cap. 117). Woodstock, C. W., 1852. 14 pp., 8 x 5, pap.

WOODSTOCK & LAKE ERIE RY. Letter to the Railway Committee in favor of the extensions claimed by the W. & L. E. Ry., Apr., 1855 R. G. Benedict. Note: Advocates granting a new charter to the W. & L. E. Ry. giving greater privileges to the company. Quebec, 1855. 10 pp., 9 x 6, b. p. Ah-26. p. 511

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AKRON BRANCH OF THE CLEVELAND & PITTSBURGH R. R. Annual report of the President and Directors to the Stockholders; 2d; 1852. Hudson, Ohio, 1853. 1 v., 9 x 6, b. p. Ah-28, p. 581.

——Report of the Chief Engineer on the location, and estimates of cost; and the first annual report of the President and Directors submitted to the Stockholders of the company, Jan. 17th, 1852. Hudson, Ohio. 1852. 1 v., 9 x 6, b. p. Ah-24, p. 761.

150 **ALABAMA & TENNESSEE RIVER R. R.** Reports of the President, Directors and Chief Engineer at the annual meeting of the Stockholders; 2d; 1851. Montgomery, 1851. 1 v., 9 x 6, pap.

ALBANY & WEST STOCKBRIDGE R. R. Report in answer to a resolution of the Assembly of 3d Feb., 1842. no place, 1842. 1 v., 9 x 6, b. p. Ab-5, p. 585.

——Report of the Superintendent to the President and Directors, relative to the condition of the road. no place, 1836. 1 v., 9 x 6, b. p. no title-page. Cfb-9, p. 419.

——Reports of the Engineers, made to the Stockholders in 1840-41. 1842. (See Ab-41.)

ALLEGHENY PORTAGE R. R. Report of the Engineer and Superintendent of the road, to avoid the inclined planes, for the fiscal year ending Nov. 30th, 1854. no place, 1854. 1 v., 9 x 6, b. p. Ab-6, p. 541.

167 ——Reports of the Superintendent and Engineer; 1853. Harrisburg, no date. 1 v., 9 x 6, pap.

——Report of the Superintendent of motive power and Supervisor of repairs, for the fiscal year ending Nov. 30th, 1852. Hollidaysburg, Pa., 1852. 1 v., 9 x 6, b. p. Ah-28, p. 325.

——Superintendent's report for the fiscal year ending Nov. 30th, 1854. no place, 1854. 1 v., 9 x 6, b. p. Ah-6, p. 525.

215 **ALLEGHENY VALLEY R. R.** Annual report of the President and Managers to the Stockholders; 13th, 19th-20th, 22d-27th, 29th-38th; 1865, '69-70, '72-77, '79-88. Pittsburg, 1866-89. 18 v., 9 x 6, pap.

5 ——Same; 1st; 1854. 1 v., 9 x 6, b. p.

6 ——Same; 3d; 1856. 1 v., 9 x 6, b. p.

41 **ANDOVER & HAVERHILL R. R.** Report of the Committee of Stockholders appointed at the annual meeting, Apr., 1838; together with a statement of the President of the Corporation, in regard to the expense of constructing the road, etc., addressed to the Committee. Andover, 1838. 1 v., 9 x 6, pap.

248 **ANDROSCOGGIN & KENNEBEC R. R.** Report of the President and Directors to the Stockholders; 1849. Waterville, 1849. 1 v., 9 x 5, pap.

205 **ATCHISON, TOPEKA & SANTA FE R. R.** Annual report of the Board of Directors to the Stockholders; 5th-21st; 1875-93. Bost., 1876-93. 17 v., 9 x 6, 11 x 9, pap.

206 **ATCHISON, TOPEKA & SANTA FÉ RY.** Annual report; 1st-4th; 1896-99. N. Y., 1896-99. 4 v., 9 x 6, pap.

5 **ATLANTA & WEST POINT R. R.** Reports of the President and Superintendent to the Stockholders, in convention. Atlanta, 1851. 1 v., 2 tab., 9 x 6, b. p.

290 **ATLANTIC & GREAT WESTERN R. R.** Annual report of Receiver; 1st-5th. Cleveland, 1876-80. 5 v., 12 x 9, pap.

289 **ATCHISON, TOPEKA & SANTA FE RY.** Annual report to the Stockholders; 1872. N. Y., 1873. 1 v., 11 x 9, pap.

30 ——Comparative statement of expenses in Engineering Department; June, 1875-76, Jan., Feb., Mar., Apr., 1876-77. no place, 1876-77. 5 sheets, 8 x 12, pap.

28 **ATLANTIC & GREAT WESTERN RY.** Reply to the Statements of James McHenry and others, in relation to the American management of the railway; together with the fourth annual report of the company, for the ten months ending Oct. 31st, 1866. Meadville, Pa., 1866. 1 v., 8 x 5, pap.

188 **ATLANTIC & GULF R. R.** Report of the President and Directors to the Stockholders; 21st-22d; 1875-76. Savannah, 1876-77. 2 v., 9 x 6, pap.

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29 **ATLANTIC & NORTH CAROLINA R. R.** Proceedings of the annual meeting of the Stockholders, together with the annual reports of the officers of the corporation; 20th. New Berne, N. C., 1874. 1 v., 9 x 5, pap.

275 **BALTIMORE & OHIO R. R.** Annual report of the President and Directors to the Stockholders; 1st-69th; 1827-95. Balt., 1827-95. 64 v. in 23, 5 x 8, 9 x 6, 12 x 9, pap.

BALTIMORE & SUSQUEHANNA R. R. Reports; 3d-5th, 8th-9th, 12th-13th, 16th-27th; 1830-32, '35-36, '39-40, '43-54. Balt., 1830-54. 19 v., 9 x 5, b. p. Af-4, p. 289.

151 **BELLEFONTAINE & INDIANA R. R.** Annual report of the President and Directors; 1st; 1851. Sidney, Ohio, 1851. 1 v., 9 x 5, pap.

——Same; 3d; 1852. 1 v., 9 x 5, b. p. Ab-8, p. 379.

32 **BELLEFONTAINE & INDIANA R. R. and INDIANAPOLIS, PITTSBURG & CLEVELAND R. R.** Joint annual report of the Directors to the Stockholders; 6th, 9th; 1861, '64. Cleveland & Indianapolis, 1862, '65. 2 v., 9 x 6, pap.

31 **BELLEFONTAINE RY.** Annual report of the Directors to the Stockholders; 3d; 1867. Indianapolis, 1868. 1 v., 9 x 6, pap.

BELOIT & MADISON R. R. Annual report; 1st-2d; 1853-54. Chic., 1854-55. 2 v., 8 x 5, b. p. Ab-9, p. 311.

235 **BOSTON & ALBANY R. R.** Annual report of the Directors to the Stockholders; 1st-24th; 1868-91. Note: 5th Report wanting. Springfield & Bost., 1869-91. 23 v., 9 x 6, pap.

250 **BOSTON & LOWELL R. R.** Report presented at the annual meeting; 1837. Bost., 1838. 1 v., 9 x 6, pap.

211 **BOSTON & MAINE R. R.** Annual report of the Directors to the Stockholders; 53d-54th, 64th, 66th; 1886-87, '97, '99. Bost., 1886-99. 4 v., 9 x 6, pap.

——Same; 15th-16th; 1849-50. 2 v., 8 x 5, pap. Ag-2, p. 589.

178 **BOSTON & NEW YORK AIR LINE R. R.** Annual report of the Board of Directors to the Stockholders; 1878-81. N. Y., 1878-81. 4 v., 7 x 5, pap.

38 **BOSTON & PROVIDENCE R. R.** Report of the Board of Directors; 1854, '61, '68. Bost., 1855-64. 3 v., 9 x 6, pap.

34 **BOSTON & WORCESTER R. R.** Annual report of the Directors; 28th-30th, 32d, 38th; 1857-58, '61, '67. Bost., 1858-68. 5 v., 9 x 6, pap.

——Same; 23d; 1852. 1 v., 9 x 6, b. p. Ab-8, p. 367.

——Same; 25th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 303.

283 ——Annual report to the Legislature of Massachusetts; 13th; 1844. Bost., 1845. 1 v., 8 x 5, b. p.

47 **BOSTON, CONCORD & MONTREAL R. R.** Annual report of the Directors; 32d-33d; 1878-79. Bost., 1878-79. 2 v., 9 x 6, pap.

——Same; 9th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 283.

171 **BOSTON, HARTFORD & ERIE R. R.** Report to the Stockholders; 1864. Hartford, 1864. 1 v., 9 x 6, pap.

196 **BROCKVILLE & OTTAWA RY.** Annual report; 4th; 1867. Montreal, 1868. 1 v., 9 x 6, pap.

280 **BURLINGTON, CEDAR RAPIDS & MINNESOTA RY.** Receiver's report; 1875. N. Y., 1875. 1 v., map, 9 x 6, pap.

46 **BURLINGTON, CEDAR RAPIDS & NORTHERN RY.** Annual report; 1st-3d; 1877-79. Cedar Rapids, 1877-79. 3 v., 9 x 6, pap.

252 **CAIRO & FULTON R. R.** Proceedings of the Board of Directors, and the report of the Chief Engineer upon the preliminary surveys. Little Rock, 1854. 1 v., 9 x 5, pap.

——Proceedings of the Second annual meeting of the Stockholders, held in Little Rock, Ark., May 7th, 1855; with an appendix. Little Rock, 1855. 1 v., 9 x 6, b. p. Ah-26, p. 953.

270 **CALEDONIAN RY.** Report by the Directors to the half-yearly general meeting of the company; 76th-80th, 83d; 1883-85, '86. Glasgow, 1883-86. 6 v., 15 x 10, pap.

214 **CALIFORNIA.** Annual report of the —— railroad company; 1876-77. Note: Blank form, issued by the Commissioners of Transportation, to be filled in by a R. R. Co. making its annual return. Sacramento, 1876-77. 2 v., 11 x 9, pap.

CAMDEN & AMBOY R. R., DELAWARE & RARITAN CANAL and NEW JERSEY R. R. & TRANSPORTATION CO. Joint report to the Stockholders; 1st; 1867. 1867. (See Cfg–35.)

239 **CANADA SOUTHERN RY.** Annual report of the President and Directors to the Shareholders; 1892-93, '95. N. Y., 1893-96. 3 v., 9 x 6, pap.

271 **CANADIAN PACIFIC RY.** Annual report, and report of proceedings at the annual meeting of Shareholders; 3d, 5th-7th; 1883, '85-87. Montreal, 1884-88. 4 v., 9 x 6, pap.

272 ——Report of proceedings at the adjourned annual and special meeting of Shareholders. Montreal, 1885. 1 v., map, tab., 9 x 6, pap.

Ag—(*Continued*).

88 **CATAWISSA, WILLIAMSPORT & ERIE R. R.** Report of the President and Managers to the Stock and Bond holders; 1857. Phil., 1857. 1 v., 9 x 6, pap.

——Same; 1855. Phil., 1855. 1 v., 9 x 6, b. p. Ab-6, p. 733.

——Statement of the Company. no place, no date. 1 v., map, 9 x 6, b. p. Ab-1, p. 377.

CENTRAL MILITARY TRACT R. R. Report of the Directors to the Stockholders; 1855-56. Bost., 1855-56. 2 v., 8 x 5, b. p. Ab-9, p. 441.

——Same; 1856. Chic., 1856. 1 v., 8 x 5. b. p. Ae-1, p. 253.

44 **CENTRAL PACIFIC R. R.** Annual report of the Board of Directors to the Stockholders; 1872. Sacramento, 1873. 1 v., 9 x 6, pap.

208 **CENTRAL R. R. & BANKING CO. OF GEORGIA.** Report of the President and Directors to the Stockholders; 40th; 1875. Savannah, 1875. 1 v., 9 x 6, pap.

10 ——Reports of the Presidents, Engineers-in-Chief, and Superintendents; 1st-19th; 1838-53; with report of survey by Alfred Cruger, and the charter of the company. Savannah, 1854. 1 v., 9 x 6, ½ ro.

213 **CENTRAL RAILROAD OF NEW JERSEY.** Annual report of the Board of Directors to the Stockholders; 1st-29th; 1847-76. Note: 7th report wanting. N. Y., 1852-76. 24 v., 9 x 6, pap.

40 **CHARLOTTE & SOUTH CAROLINA R. R.** Proceedings of the Stockholders at their annual meeting; 12th; 1860. Columbia, 1860. 1 v., 9 x 6, pap.

288 **CHEMIN DE FER DU GOTHARD.** Rapport de la direction et du conseil d'administration du Chemin de Fer du Gothard; 2d-3d; 1873-74. Zurich, 1874-75. 2 v., 11 x 8, pap.

287 ——Geschäftsbericht der Direktion und des Verwaltungsrathes der Gotthardbahn; 1st-3d; 1872-74. Zurich, 1873-75. 3 v., 11 x 8, pap.

298 **CHEMIN DE FER GRAND CENTRALE BELGE.** Direction des voies et travaux: Compte rendu de l'exercise; 1870. Bruxelles, no date. 1 v., 11 x 9, pap.

39 **CHESAPEAKE & OHIO R. R.** Annual report of the President and Directors to the Stockholders; 4th; 1871. N. Y., 1872. 1 v., 9 x 6, pap.

21 **CHICAGO & ALTON R. R.** Annual report of the President and Directors; 7th, 9th-18th; 1869, '71-80. Chic., 1870-81. 12 v., 9 x 6, pap.

CHICAGO & MISSISSIPPI R. R. Statement by the directors of the C. & M. R. R. as to the present condition of the road, Mar. 15th, 1854. N. Y., 1854. 1 v., 9 x 5, b. p. Af-8, p. 851.

36 **CHICAGO & NORTHWESTERN RY.** Address of the President to the Stock and Bond-holders, at the annual meeting, June 7th, 1860; together with the balance sheet of Apr. 1st, the statement of income account for the ten months ending Mar. 31st, and the report of the Assistant Treasurer for the fiscal year. N. Y., 1860. 1 v., 9 x 6, pap.

35 **CHICAGO & NORTHWESTERN R. R.** Annual report; 3d, 6th-21st, 23rd, 27th, 31st-34th, 36th; 1862, '65-80, '82, '86, '90-93, '95. Chic. & N. Y., 1862-95. 23 v., 9 x 6, pap.

168 **CHICAGO & ROCK ISLAND R. R.** Annual report of the President and Directors to the Stockholders; July 1st, 1857-59. N. Y., 1857-59. 2 v., 9 x 6, pap.

27 **CHICAGO, BURLINGTON & QUINCY R. R.** Annual report of the Directors; 16th-37th; 1860-90. Cambridge, Mass, 1860-91. 27 v., 9 x 6, pap.

——Same; 1st-3rd; 1855-57. Chic., 1855-57. 3 v., 8 x 5, b. p. Ab-9, p. 345.

45 **CHICAGO, DANVILLE & VINCENNES R. R.** Report of the Receiver to the Judge of the Circuit Court of the Northern District of Illinois; 1875-77. Chic., 1875-77. 2 v., 9 x 6, pap.

CHICAGO, IOWA & NEBRASKA R. R. Statement accompanying their proposal to sell certain of their bonds; containing interesting statistics of the road and the country it penetrates; Jan., 1857. Chic., 1857. 1 v., map, 8 x 5, b. p. Ae-1, p. 281.

284 **CHICAGO, MILWAUKEE & ST. PAUL RY.** Annual report; 5th-31st; 1868-95. Note: 6th, 9th-12th, 16th, 28th reports wanting. Milwaukee & Chic., 1869-95. 21 v., 9 x 6, pap.

17 **CHICAGO, ROCK ISLAND & PACIFIC R. R.** Annual report; 1st-14th; 1867-80. N. Y. & Chic., 1867-80. 14 v., 9 x 6, pap.

16 **CHICAGO, ROCK ISLAND & PACIFIC RY.** Annual report of the Directors to the Stockholders; 1st-14th; 1881-94. Note: 8th-10th reports wanting. Chic., 1881-94. 11 v., 9 x 6, pap.

CHICAGO, ST. CHARLES & MISSISSIPPI AIR LINE R. R. Annual report; 1st; 1854. Chic., 1854. 1 v., 9 x 5, b. p. Af-8, p. 815.

288 **CHICAGO, ST. PAUL & KANSAS CITY RY.** Annual report; 4th-5th; 1890-91. no place, no date. 2 v., 9 x 6, pap.

200 **CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA RY.** Annual report; 4th-5th, 10th-12th, 15th; 1884-85, '90-92, '95. St. Paul, 1885-96. 6 v., 9 x 6, pap.

Ag—(*Continued*).

CINCINNATI & DAYTON R. R. Report of the President and Directors; 1st. Cin., 1852. 1 v., maps, 8 x 5, b. p. no title-page. Ab-8, p. 359.

180 CINCINNATI, HAMILTON & DAYTON R. R. Annual report of the Directors to the Stockholders; 1st–41st; 1850–88. Note: Reports. 7th, 12th, 15th–17th, 35th–36th. wanting. Cin., 1850–88. 34 v., 9 x 6, pap.

23 CINCINNATI, SANDUSKY & CLEVELAND R. R. Report to the Stock and Bond holders; 1871–80. Sandusky, 1871–80. 10 v., 9 x 6, pap.

52 CLEVELAND & MAHONING R. R. Report; 1861–63. Cleveland, 1861–63. 3 v., 9 x 5, pap.

50 CLEVELAND & PITTSBURGH R. R. Annual report of the President and Directors to the Stockholders; 20th–24th; 1868–72. Cleveland, 1868–72. 5 v., 9 x 5, pap.

——Same; 6th; 1854. 1 v., 9 x 6, b. p. Ag-6, p. 227.

51 ——Report of the Special Committee appointed by the Stockholders at the annual meeting; Jan. 7th, 1874. Cleveland, 1874. 17 pp., 9 x 6, pap.

25 CLEVELAND, COLUMBUS & CINCINNATI R. R. Annual report of the Directors to the Stockholders; 10th–12th, 16th–17th; 1860–62, '66–67. Cleveland, 1860–67. 5 v., 9 x 6, pap.

——Same; 2d–3d; 1853–54. 2 v., 9 x 5, b. p. Af-8, p. 155.

——Annual report of the Superintendent to the Directors, Jan. 8th, 1855. Cleveland, 1855. 1 v., 9 x 5, b. p. Af-8, p. 195.

22 CLEVELAND, COLUMBUS, CINCINNATI & INDIANAPOLIS RY. Annual report of the Board of Directors to the Stockholders; 1st–13th; 1869–80. Cleveland, 1869–81. 13 v., 9 x 6, pap.

58 CLEVELAND, PAINESVILLE & ASHTABULA R. R. Annual report of the Directors; 1865–67. Cleveland, 1866–68. 3 v., 9 x 6, pap.

6 CLEVELAND, ZANESVILLE & CINCINNATI R. R. Annual report of the President and Directors to the Stockholders; 3d; 1854. Hudson, Ohio, 1854. 1 v., 9 x 5, b. p.

13 COLUMBUS & HOCKING VALLEY R. R. Annual report; 3d–12th; 1871–80. Columbus, 1872–81. 10 v., 9 x 6, pap.

14 COLUMBUS & TOLEDO R. R. OF THE STATE OF OHIO. Annual report; 1st–4th; 1877–80. Columbus, 1878–81. 4 v., 9 x 6, pap.

COLUMBUS & XENIA R. R. Annual report of the Directors to the Stockholders; 3d; 1852. Columbus, 1853. 1 v., 9 x 6, b. p. Ab-8, p. 287.

15 COLUMBUS, HOCKING VALLEY & TOLEDO RY. Annual report; 1st–2d, 4th–7th; 1881–82, '84–87. Columbus, 1882–88. 6 v., 9 x 6, pap.

48 CONCORD R. R. Annual report of the Directors; 37th–38th; 1878–79. Concord, N. H., 1878–79. 2 v., 9 x 6, pap.

263 CONNECTICUT RIVER R. R. Annual report of the Directors to the Stockholders; 2d, 4th; 1847. '49. Northampton, 1847–49. 2 v., map, 8 x 5, b. p.

249 COVINGTON & LEXINGTON R. R. Annual reports of the President, Engineer and Treasurer; 1851. Covington, 1852. 1 v., 9 x 6, pap.

COVINGTON & OHIO R. R. Report of the Chief Engineer. Richmond, Va., 1855. 1 v., 9 x 5, b. p. Af-8, p. 411.

59 CUMBERLAND & OHIO R. R. Annual report; 4th–5th; 1874–75. Louisville, 1874–75. 2 v. in 1, 9 x 6, pap.

202 DANVILLE, HAZLETON & WILKESBARRE R. R. Annual report; 3d; 1870. Phil., 1870. 1 v., 9 x 6, pap.

DAYTON & CINCINNATI R. R. Address of the Board of Directors, delivered by . . . the President to the Stockholders, at their meeting Apr. 24th, 1855. Cin., 1855. 1 v., 9 x 6, b. p. Af-8, p. 265.

——Annual report; 2nd; 1854. Cin., 1854. 1 v., map, 9 x 5, b. p. Ag-6, p. 191.

DAYTON & MICHIGAN R. R. First exhibit of the condition and prospects of their road. N. Y., 1852. 1 v., map, 9 x 6, b. p. Ah-28, p. 525.

DELAWARE, LACKAWANNA & WESTERN R. R. Annual report of the Board of Managers to the Stockholders; 1st–8th; 1853–60. N. Y., 1854–61. 8 v., 8 x 5, b. p. Af-13, p. 135.

184 DELAWARE R. R. Proceedings of the annual meeting of the Stockholders and the annual report of the President and Board of Directors; 9th; 1861. Dover, Del., 1861. 1 v., 9 x 6, pap.

54 DENVER & RIO GRANDE RY. Annual report of the Board of Directors to the Stockholders; 1st; 1873. Phil., 1873. 1 v., 9 x 6, pap.

53 ——Statistical statement of the Receiver from July 12th, 1884, to Dec. 31st, 1885; with supplement covering period from Jan. 1st, 1884, to July 11th, 1884, prior to the receivership. Colorado Springs, 1886. 1 v., 9 x 6, pap.

55 DENVER & RIO GRANDE R. R. Annual report to the Stockholders; 5th–9th; 1891–95. Denver, 1891–95. 5 v., 9 x 6, pap.

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18 **DETROIT & MILWAUKEE R. R.** Report of the Directors; 1868-78. Detroit, 1869-78. 11 v., 9 x 6, pap.

19 **DETROIT, GRAND HAVEN & MILWAUKEE RY.** Report of the Directors; 1879. Detroit, 1880. 1 v., 6 x 9, pap.

169 **DUBLIN & WRIGHTSVILLE R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1885. Savannah, 1886. 1 v., 9 x 6, pap.

231 **DUBUQUE & PACIFIC R. R.** Report; 1858. Dubuque, 1858. 1 v., 9 x 6, pap.

56 **EASTERN R. R.** Annual report of the Directors to the Stockholders; 4th-5th, 38th-39th, 41st, 43d-44th, 46th, 49th; 1848-49, '72-73, '75, '77-78, '80, '83. Bost., 1848-83. 9 v.. 9 x 6, pap.

57 **ELIZABETHTOWN & PADUCAH R. R.** Annual report of the President and Directors; 5th; 1872. Louisville, 1872. 1 v., 9 x 6, pap.

95 **ERIE RY.** Annual report of the Directors to the Stockholders; 1st-5th, 10th-11th, 15th-16th; 1863-66, '71-72, '76-77. N. Y., 1863-77. 9 v., 9 x 6, pap.

96 ——Annual report of the Receiver to the Board of Directors; 1876. N. Y., 1876. 1 v., 9 x 6, pap.

94 ——Report of the President to the Stockholders and the Board of Directors; Sept., 1873. N. Y., 1873. 1 v., 11 tab., 13 x 8, pap. no title-page.

70 **ESTRADA DE FERRO DO SAO FRANCISCO.** Relatorio; 1897. Bahia, 1898. 1 v., 11 x 7, rus.

EVANSVILLE & CRAWFORDSVILLE R. R. Annual report of the President and Directors to the Stockholders; 1855. Terre-Haute, Ind., 1855. 1 v., 8 x 5, b. p. Af-8, p. 379.

5 **FALL RIVER R. R.** Annual report of the Directors to the Stockholders; 2nd, 4th, 8th; 1848, '50, '54. Fall River, Mass., 1848-54. 3 v., 9 x 6, b. p.

253 **FERROCARRIL ANDINO.** Memoria; 1883. Buenos Aires, 1884. 1 v., 10 x 6, pap.

42 **FERROCARRIL DE COPIAPO.** Informe relativo a los negocios durante el primer semestre de 1865. Vaiparaiso, 1865. 1 v., 9 x 6, pap.

FITCHBURG R. R. Annual report of the Directors to the Stockholders at their meeting; Jan. 29th, 1850. Charlestown, Mass., 1850. 1 v., 8 x 5, b. p. Ab-1, p. 339.

——Same; 13th-14th; 1854-55. 2 v., 9 x 6, b. p. Ah-26, p. 331.

12 **FLINT & PERE MARQUETTE R. R.** Annual reports made to the Stockholders; 1867-80. East Saginaw, Mich., 1868-81. 13 v., 9 x 6, pap.

FORT WAYNE & CHICAGO R. R. Report of the President and Chief Engineer; Dec. 6th, 1854. N. Y., 1854. 1 v., map. 9 x 5, b. p. Af-8, p. 307.

61 **FORT WAYNE, JACKSON & SAGINAW R. R.** Report of the Directors; 1879. Jackson, Mich., 1880. 1 v., 9 x 6, pap.

6 **FORT WAYNE, LACON & PLATTE VALLEY AIR-LINE R. R.** Report of the President and Directors to the Stockholders; 1st; 1853. 1 v., map, 8 x 5, b. p. no title-page.

60 **GALENA & CHICAGO UNION R. R.** Annual report of the Directors to the Stockholders; 1st, 3d, 6th, 8th, 13th-15th, 17th; 1848, '50, '53, '55, '59-61, '63. Chic., 1848-64. 8 v., 9 x 6, pap.

——Same; 1st-10th; 1848-57. 10 v., 9 x 6, b. p. Ab-9, p. 29.

——Report of William B. Ogden, President of the Company, together with reports of the Engineer, Secretary and Treasurer, read at the annual meeting of the Stockholders; Apr. 5th, 1848. Chic., 1848. 1 v., 9 x 6, b. p. Ad-1, p. 724.

262 **GLASGOW & SOUTHWESTERN RY.** Report by the Directors to the Shareholders at their ordinary half-yearly meeting; July, 1883-Jan., 1885. Glasgow, 1883-85. 4 v., 15 x 10, pap.

263 **GRAND JUNCTION RAILROAD & DEPOT CO.** Annual report of the Directors; 2d; 1849. Charlestown, 1849. 1 v., 8 x 5, b. p.

223 **GRAND RAPIDS & INDIANA R. R.** Annual report of the Board of Directors to the Stockholders; 1868-70, '73. Fort Wayne, 1868-73. 4 v., 9 x 6, pap.

195 **GRAND TRUNK RY. OF CANADA.** Report of the Directors to the Bond and Stock holders, and statement of the revenue and capital accounts for the half-year ended 31st Dec., 1866. Lond., 1867. 1 v., 8 x 5, pap.

256 **GREAT EASTERN RY.** Report of the Directors to the half-yearly general meeting of the Proprietors of the Company; 42d-45th, 48th; 1883-86. Stratford, 1883-86. 5 v., 10 x 6, pap.

255 **GREAT NORTH OF SCOTLAND RY.** Report by the Directors to the ordinary general meeting of the Proprietors; 61st-64th; 1883-84. Aberdeen, 1883-84. 4 v., 10 x 7 pap.

267 **GREAT NORTHERN RY.** Report of the Directors to the half-yearly ordinary general meeting of the Proprietors; 74th-77th, 80th; 1883-86. Lond., 1883-86. 5 v. 15 x 10, pap.

Ag—(*Continued*).

258 **GREAT SOUTHERN & WESTERN RY.** Report of Directors and statement of accounts, to be submitted to the Proprietors at the half-yearly general meeting; 79th-82d, 85th; 1883-86. Dublin, 1883-86. 5 v., 9 x 6, pap.

265 **GREAT WESTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 95th-96th, 99th, 102d; 1882-83, '84, '86. Lond., 1882-86. 4 v., 15 x 10, pap.

191 **GREAT WESTERN RY. OF CANADA.** Proceedings at the annual general meeting of Shareholders; and report of the Directors; 1853. Hamilton, Ont., 1853. 1 v., 8 x 5, pap.

4 ——Same; 1852. 1 v., 8 x 5, b. p.

——Report of the Directors; Sept. 29th, 1854. Hamilton, Ont., 1854. 1 v., tab., 7 x 5, b. p. Ah-26, p. 415.

——Report of the Directors to the Shareholders upon the report made by the Commission appointed to enquire into certain accidents upon the G. W. Ry.; Apr., 1855. Hamilton, Ont., 1855. 1 v., 9 x 6, b. p. Ah-26, p. 481.

115 ——Semi-annual report of the Directors; 5th, 24th, 26th-28th, 31st, 33d-54th; Jl. 1857, Ja. '66, Ja. '67-Ja. '68, Jl. '69, Jl. '70-Ja. '81. Note: 39th, Jl. '73 wanting. Hamilton, Ont., 1857. London, Ont., 1866-81. 27 v., 8 x 5, pap.

——Same; 1st; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 455.

——Special report of the Board of Directors to the English Shareholders. Hamilton, Ont., 1853. 1 v., 7 x 4, b. p. Ab-8, p. 59.

198 **HANNIBAL & ST. JOSEPH R. R.** Report to the Stockholders; 1859. Bost., 1859. 1 v., 9 x 6, pap.

——Reports of the President, Land and Fiscal Agents, and Chief Engineer. St. Louis, 1854. 1 v., map, tab., 9 x 5, b. p. Af-7, p. 445.

HARTFORD & NEW HAVEN R. R. Annual report of the Board of Directors to the Stockholders; 17th-18th; 1852-53. Hartford, 1852-53. 2 v., 8 x 5, b. p. Ab-1, p. 307.

4 ——Same; 15th; 1850. 1 v., 9 x 5, b. p.

179 **HIWASSEE R. R.** Annual report of the President and Directors to the Stockholders; 3d; 1839. Athens, Tenn., 1839. 1 v., 8 x 5, pap.

62 **HOUSATONIC R. R.** Annual report of the Board of Directors to the Stockholders; 1860. Bridgeport, 1860. 1 v., 9 x 6, pap.

4 ——Same; 1850. 1 v., 9 x 6, b. p.

HUDSON RIVER R. R. Annual report of the Directors to the Stockholders; 1st-3d, 5th; 1848-50, '52. N. Y., 1848-52. 4 v., tab., 8 x 5, b. p. Af-218, p. 298.

——Same; 2d; 1849. 1 v., 8 x 5, b. p. Ab-1, p. 153.

26 **ILLINOIS CENTRAL R. R.** Report and accounts; 1868, '71-80. N. Y., 1869-81. 11 v., 17 x 11, 13 x 9, pap. no title-page.

266 ——Same; 1856-57. 2 v., 16 x 11, b. p.

66 **INDIANA CENTRAL RY.** Annual report of the President and Directors to the Stockholders; 7th; 1858. Richmond, Ind., 1859. 1 v., 9 x 6, pap.

INDIANAPOLIS & CINCINNATI R. R. Semi-annual report of the President and Directors to the Stockholders, for the half-year ending Dec. 31st, 1855. Cin., 1856. 1 v., 9 x 5, b. p. Af-8, p. 331.

218 **INDIANAPOLIS, CINCINNATI & LAFAYETTE R. R.** Report by the Receiver; 1878. Cin., 1878. 1 v., 9 x 6, pap.

222 ——Report of the President and Directors; 1875. Cin., 1875. 1 v., 9 x 6, pap.

22 **INDIANAPOLIS, PITTSBURGH & CLEVELAND R. R. and BELLEFONTAINE & INDIANA R. R.** Joint annual report of the Directors to the Stockholders; 6th, 9th; 1861, '64. Indianapolis, 1862-65. 2 v., 9 x 6, pap.

ITHACA & OWEGO R. R. Report of the President and Directors to the Stockholders; 1833. Ithaca, N. Y., 1833. 1 v., 9 x 6, b. p. Cfg-2, p. 551.

65 **JACKSON, LANSING & SAGINAW R. R.** Report of the Directors to the Stockholders; together with the report of the Treasurer; 1869. Jackson, Tenn., 1870. 1 v., 8 x 5, pap.

43 **JOLIET & NORTHERN INDIANA R. R.** Report of the Directors to the Stockholders; 1854. N. Y., 1854. 1 v., 9 x 6, pap.

190 **KANSAS PACIFIC RY.** Annual report of the Board of Directors to the Stockholders; 2d-3d, 5th-6th; 1868-69, '71-72. St. Louis, 1869-73. 4 v., 9 x 6, pap.

247 **KENNEBEC & PORTLAND R. R.** Annual report of the President and Directors to the Stockholders, 1848-49, '52. Brunswick, 1848-52. 3 v., 9 x 6, pap.

174 **KENTUCKY CENTRAL R. R.** Annual report; 5th; 1880. Cin., 1880. 1 v., 9 x 6, pap.

76 **LACKAWANNA & BLOOMSBURG R. R.** Report of the Directors to the Stockholders; 1855. Phil., 1856. 1 v., 9 x 6, pap.

——Same; 1854. N. Y., 1856. 1 v., 9 x 6, b. p. Ma-10, p. 131.

Ag—(*Continued*).

LA CROSSE & MILWAUKEE R. R. Annual report of the Board of Directors to the Stockholders; 1853. Milwaukee, 1853. 1 v., 8 x 5, b. p. Ab-8, p. 577.

197 ——Same; 1856, '58. 2 v., 9 x 6, pap.

LAKE ST. LOUIS & PROVINCE LINE R. R. Report of the Directors and Engineer to the Stockholders. Montreal, 1851. 1 v., 8 x 5, b. p. Ah-24, p. 931.

77 LAKE SHORE & MICHIGAN SOUTHERN RY. Annual report of the Board of Directors to the Stockholders; 1st–30th; 1870–99. Cleveland, 1870–1900. 30 v., 9 x 6, pap.

75 LAKE SHORE & TUSCARAWAS VALLEY RY. Annual report of the President and Directors to the Stockholders; 2d; 1874. Cleveland, 1874. 1 v., 9 x 6, pap.

74 LAKE SHORE RY. Annual report of the Directors to the Stockholders; 1868. Cleveland, 1869. 1 v., 9 x 6, pap.

259 LANCASHIRE & YORKSHIRE RY. Report of the Directors and statement of accounts, half-yearly, to be submitted to the half-yearly general meeting of the Proprietors; 100th; 1886. no place, 1886. 1 v., 15 x 10, pap.

154 LANCASTER, LEBANON & PINE GROVE R. R. Annual report of the Board of Directors; 2d; 1854. Phil., 1854. 1 v., 9 x 6, pap.

64 LEAVENWORTH, LAWRENCE & GALVESTON R. R. Report of the Directors, presented to the Stockholders at their annual meeting; June, 1872. Chic., 1872. 1 v., 9 x 6, pap.

221 LEHIGH VALLEY R. R. Annual report of the Board of Directors to the Stockholders; 7th, 11th–12th, 14th–18th, 23d–23d, 26th; 1862, '66–67, '69–73, '77–78, '81. Phil., 1863–81. 11 v., 9 x 6, pap.

246 LEXINGTON & DANVILLE R. R. Annual report to the Stockholders; 1856. Cin., 1856. 1 v., 9 x 6, pap.

LEXINGTON & FRANKFORT R. R. Annual report; 19th–20th, 25th; 1867–68, '73. (See Ag-83.)

8 LITTLE MIAMI R. R. Annual report of the Directors; 8th–9th; 1850–51. Cin., 1850–51. 2 v., 9 x 5, b. p.

28 ——Same; 10th; 1852. 1 v., 9 x 6, b. p.

6 ——Same; 11th; 1853. 1 v., 9 x 6, b. p.

254 LONDON & NORTHWESTERN RY. Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; June, 1884, '86. Lond., 1884–86. 2 v., 15 x 10, pap.

187 LONDON & PORT STANLEY RY. Annual report of the President and Directors to the Stockholders; 1st; 1854. London, Ont., 1854. 1 v., 9 x 6, pap.

——Report of the Board of Directors; Apr., 1855. London, Ont., 1855. 1 v., map, 9 x 5, b. p. Ah-26, p. 505.

261 LONDON & SOUTHWESTERN RY. Report and statement of accounts, for the half-year ended June, 1883–85, June, '86. Lond., 1883–86. 6 v., 15 x 10, pap.

260 LONDON, BRIGHTON & SOUTH COAST RY. Report of the Directors to be submitted at the meeting of the Proprietors; 76th–78th, 81st; 1883–84, '86. Lond., 1883–86. 4 v., 15 x 10, pap.

264 LONDON, CHATHAM & DOVER RY. Report of the Directors, together with statements of accounts, to be submitted to the half-yearly ordinary general meeting of the company; June, 1883–Dec., '84. Pimlico, 1883–84. 4 v., 15 x 10, pap.

68 LONG ISLAND R. R. Annual report; 16th, 19th; 1858, '63. N. Y., 1859–63. 2 v., 9 x 6, pap.

4 ——Same; 7th; 1849. 1 v., 9 x 5, b. p.

——Same; 11th; 1853. 1 v., 8 x 5, b. p. Ab-1, p. 225.

69 ——Semi-annual report of the Board of Directors to its Stockholders; Dec., 1843. N. Y., 1843. 1 v., 8 x 5, pap.

66 LOUISVILLE & FRANKFORT R. R. Annual report of the President and Directors to the Stockholders; 17th–18th; 1865–66. Louisville, Ky., 1865–66. 2 v., 9 x 6, pap.

78 LOUISVILLE & NASHVILLE R. R. Annual report of the President and Directors; 22nd–42nd, 44th–45th; 1872–93, '95–96. Louisville, Ky., 1874–96. 23 v., 9 x 6, 11 x 9, pap.

71 LOUISVILLE & NASHVILLE R. R. and SOUTH & NORTH ALABAMA R. R. Cost of road repairs from June, 1877, to Mar., 1879. Louisville, Ky., 1877–79. 3 sheets, 27 x 9, pap. no title-page.

LOUISVILLE, CINCINNATI & CHARLESTON R. R. Annual report of the President and Directors to the Stockholders; 2d. Charleston, 1838. 1 v., tab., 9 x 5, b. p. Ab-362, p. 311.

——Proceedings of the Stockholders at their second meeting; with the first annual report of the President and Directors, the report of the Chief and Associate Engineers, and the by-laws. Charleston, 1837. 1 v., 9 x 5, b. p. Ab-362, p. 227.

Ag—(*Continued*).

83 **LOUISVILLE, CINCINNATI & LEXINGTON R. R.** Annual report; 1st-2d, 7th: Being the annual report of the Louisville & Frankfort, and Lexington & Frankfort Railroads; 19th-20th, 25th; 1867-68, '73. Louisville, Ky., 1867-74. 3 v., 9 x 6, pap.

67 **LOUISVILLE, NEW ALBANY & CHICAGO R. R.** Report of the Managers to the Trustee for the Bondholders; together with a Report of the Superintendent, from Oct. 1st, 1858, to Sept. 30th, 1859. N. Y., 1860. 1 v., 9 x 6, pap.

87 **MACON & WESTERN R. R.** Annual report; 1st; 1846. N. Y., 1847. 1 v., 9 x 6, pap.

MADISON & INDIANAPOLIS R. R. Annual report of the President; 8th-10th; 1851-53. Indianapolis & Madison, 1851-53. 2 v., 8 x 5, b. p. Ae-1, p. 89.

92 **MAINE CENTRAL R. R.** Annual reports; 1872-73, '78-79, '81-84, '87, '92-95. Augusta & Portland, 1872-95. 13 v., 9 x 6, pap.

88 **MANCHESTER & LAWRENCE R. R.** Annual report of the Board of Directors to the Stockholders; 31st: 1878-79. Manchester, N. H., 1879. 1 v., 9 x 6, pap.

257 **MANCHESTER, SHEFFIELD & LINCOLNSHIRE RY.** Report of the Directors and statement of accounts, half-yearly, to the Meeting of Proprietors; June, 1886. Manchester, 1886. 1 v., 15 x 10, pap.

MANITOWOC & MISSISSIPPI R. R. Report to the Directors by the President. Milwaukee, 1854. 1 v., map, 9 x 5, b. p. Af-8, p. 659.

MANSFIELD & SANDUSKY CITY R. R. Annual report of the President and Directors to the Stockholders; 4th; 1851. N. Y., 1851. 1 v., tab., map, 9 x 5, b. p. Ag-8, p. 225.

MARIETTA & CINCINNATI R. R. Annual report; 1st-3d, 5th; 1851-53, '55. various places, 1851-55. 4 v., 9 x 5, b. p. Af-8, p. 45.

99 **MASSACHUSETTS.** Report of the —— railroad Company; 1876. Note: Blank form, issued by the Board of Railroad Commissioners, to be filled in by a R. R. Co. making its annual return. Bost., no date. 1 v., 12 x 9, bds.

MAYSVILLE & LEXINGTON R. R. Annual report of the President and Directors to the Stockholders; 3d; 1853. N. Y., 1853. 1 v., 9 x 6, b. p. Ab-8, p. 447.

152 **MEMPHIS & CHARLESTON R. R.** Annual report of the Board of Directors to the Stockholders; 3d-5th, 7th, 9th; 1853-55, '57, '59. Huntsville & Memphis, 1853-59. 5 v., 9 x 5, pap.

153 ——Annual report of the Chief Engineer; 1st; 1851. Huntsville, Ala., 1851. 1 v., 9 x 6, pap.

201 **MEXICAN CENTRAL RY.** Annual report of the Board of Directors to the Stockholders; 1st-11th; 1880-90. Bost., 1881-91. 11 v., 9 x 6, pap.

87 **MEXICAN NATIONAL R. R.** Annual report; 4th; 1890. Mexico, 1891. 1 v., 10 x 7, pap.

24 **MICHIGAN CENTRAL R. R.** Report of the Directors to the Stockholders; 1847-99. Note: Reports for 1850-54, '56, '58-62, '66, '68-76, '91-93 wanting. Detroit, 1847-1900. 29 v., 9 x 6, pap.

81 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Annual report to the Stockholders; Mar. 1st, 1867-69. Chic., 1867-69. 3 v., 9 x 6, pap.

——Same; 1855. 1 v., 9 x 6, b. p. Af-8, p. 537.

MICHIGAN SOUTHERN R. R. and NORTHERN INDIANA R. R. Report of the Boards of Directors; July 30th, 1853. N. Y., 1853. 1 v., map, tab., 9 x 6, b. p. Ab-8, p. 143.

234 **MIDLAND R. R. OF NEW JERSEY.** Annual report; 1st; 1880. N. Y., 1881. 1 v., 9 x 6, pap.

269 **MIDLAND RY.** Report of the Board of Directors to the general half-yearly meeting of the proprietors; 79th-82d, 85th; 1883-84, '86. Lond., 1883-86 5 v., 15 x 10, pap.

85 **MILWAUKEE & CHICAGO R. R.** Annual report; 1862. Milwaukee, 1863. 1 v., 9 x 6, pap.

84 **MILWAUKEE & MISSISSIPPI R. R.** Annual report of the Directors to the Stockholders; together with reports of the Secretary, Treasurer and Superintendent; 11th; 1859. Milwaukee, 1860. 1 v., 9 x 6, pap.

——Same; 5th; 1854. 1 v., 9 x 5, b. p. Af-7, p. 217.

——Same; 6th; 1855. 1 v., 9 x 5, b. p. Af-8, p. 725.

——Exhibit of the M. & M. R. R. Co.; June, 1852. N. Y., 1852. 1 v., 9 x 6, b. p. Ah-28, p. 687.

86 **MILWAUKEE & PRAIRIE DU CHIEN RY.** Annual report to the Stockholders; 1862. Milwaukee, 1863. 1 v., 9 x 6, pap.

MILWAUKEE, WAUKESHA & MISSISSIPPI R. R. Annual report of the Directors to the Stockholders; 1st; 1849. no place. 1849. 1 v., 8 x 5, b. p. no title-page. Ab-363, p. 583.

188 **MINE HILL & SCHUYLKILL HAVEN R. R.** Report of the Board of Managers to the Stockholders at their annual meeting; 25th, 30th, 32d-33d; 1854, '58, '61-62. Phil., 1854-62. 4 v., 9 x 6, pap.

Ag—(*Continued*).

137 MINNEAPOLIS & ST. LOUIS RY. Annual report; 1879. Minneapolis, 1880. 1 v., 9 x 6, pap.

79 MISSOURI PACIFIC RY. and TEXAS & PACIFIC RY. Report to the Stockholders; 1884. N. Y., 1885. 1 v., 9 x 6, pap.

MOBILE & OHIO R. R. Annual report for the fiscal year ending the 30th day of June; 1878-79. N. Y., 1878-79. 2 v., 9 x 6, b. p. Af-220, p. 449.

80 ——Proceedings of the annual meeting of the Stockholders; 11th; 1859. Mobile, 1859. 1 v., 9 x 6, pap.

——Same; 1st-2d; 1849-50. 2 v., 8 x 5, b. p. Ab-363, p. 299.

MOHAWK & HUDSON R. R. Report of the Superintendent to the President and Directors, for the year 1838. Albany, 1839. 1 v., 9 x 5, b. p. Ab-2, p. 655.

——Report relative to land occupied by the terminals of the railroad, and the amount of money received for transportation from the spring of 1854 to Sept. 14th of the same year. no place, 1835. 1 v., 9 x 6, b. p. no title-page. Cfh-10, p. 1089.

82 MORRIS & ESSEX R. R. Report of the Board of Directors to the Stockholders; together with the proceedings at the annual meeting; June, 1855-64, '68. Newark & Jersey City, 1855-68. 11 v., 9 x 6, pap.

101 NASHVILLE & CHATTANOOGA R. R. Annual report of the Directors and other officers to the Stockholders; 7th, 21st; 1854, '72. Nashville, 1855-72. 2 v., 9 x 6, pap.

——Same; 8th; 1855. 1 v., 9 x 6, b. p. Ah-26, p. 795.

105 NASHVILLE, CHATTANOOGA & ST. LOUIS RY. Annual report of the President and Directors to the Stockholders; 1873, '75, '85. Nashville, 1873-85. 3 v., 9 x 6, pap.

107 NESQUEHONING VALLEY R. R. Annual report of the President and Directors to the Stockholders; 1st; 1862. Phil., 1862. 1 v., 9 x 6, pap.

113 NEW HAVEN, NEW LONDON & STONINGTON R. R. Annual report of the Board of Directors to the Stockholders; 1859. New Haven, 1860. 1 v., 9 x 6, pap.

186 NEW JERSEY R. R. & TRANSPORTATION CO. Report of the Directors to the Stockholders; 1858, '64. Newark, 1858-64. 2 v., 9 x 6, pap.

280 ——Report of the Directors to the Stockholders; with the proceedings of the annual meeting; 1853, '55-60. Newark, 1853-60. 7 v., 8 x 5, b. p.

112 NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R. Annual report of the President and Directors; 7th-8th; 1859-60. New Orleans, 1859-60. 2 v., 9 x 6, pap.

7 ——Same; 1st; 1853. 1 v., 9 x 6, b. p.

NEW YORK & ERIE R. R. Report; 1835, '41, '49-51, '53, '55. N. Y., 1835-55. 7 v., 8 x 5, b. p. Af-2, p. 225.

——Same; 1836. 1 v., 10 x 6, b. p. Cfh-14, p. 191.

1 ——Same; 1840. 1 v., 8 x 5, b. p.

——Report giving a list of the stockholders, etc. no place, 1839. 1 v., 9 x 6, b. p. Ab-5, p. 211.

——Report of the Superintendent of the Eastern Division of the N. Y. & E. R. R. to the assignees. H. C. Seymour. N. Y., 1842. 1 v., tab., 7 x 4, b. p. Ah-23, p. 723.

98 ——Statement of the operations of the railroad under the receivership from Aug. 16th, 1859, to Dec. 31st, 1861. N. Y., 1862. 1 v., 9 x 6, pap.

——Summary of the report made at the second annual meeting of the Stockholders of the N. Y. & E. R. R.: Sept. 29th, 1836. *New York American*. 1 v., 10 x 8, b. p. no title-page. Af-216, p. 127.

NEW YORK & HARLEM R. R. Report of the Board of Directors to the Stockholders; 5th Oct., 1849. N. Y., 1849. 1 v., tab., 8 x 5, b. p. Ah-23, p. 855.

5 ——Report of the Directors made to the Stockholders in pursuance of a resolution, passed at their meeting of the 15th of Aug., 1854; for the year ending 30th Sept., 1854. N. Y., 1855. 1 v., 9 x 6, b. p.

237 NEW YORK & NEW ENGLAND R. R. Annual report to the Stockholders; made at the annual meeting; 12th; 1887. Bost., no date. 1 v., 9 x 6, pap.

109 NEW YORK & NEW HAVEN R. R. Report of the Board of Directors to the Stockholders; 1858, '71-72. N. Y., 1858-72. 3 v., 9 x 6, pap.

288 ——Same; 1849. 1 v., 8 x 5, b. p.

4 ——Same; 1851-52. 2 v., 9 x 6, b. p.

286 ——Same; 1855. 1 v., 11 x 9, b. p.

11 NEW YORK CENTRAL & HUDSON RIVER R. R. Annual report of the Board of Directors to the Stockholders; 1st-30th; 1870-99. Albany & N. Y., 1871-99. 30 v., 9 x 6, 12 x 9, pap.

Ag—(*Continued*).

NEW YORK CENTRAL R. R. Annual report; 1853-69. Albany, 1853-70. 17 v., 10 x 8, b. p. Af-222, p. 37.

——Report of a Committee appointed Jan. 4th, 1855, by the Directors, at the request of the Stockholders, authorizing certain examinations to be made of the "acts and doings of the Directors and Treasurer" subsequent to the consolidation. Bost., 1855. 1 v., 9 x 6, b. p. Af-5, p. 1079.

——Report of the Committee appointed by the Board of Directors to examine the accounts of the Treasurer. Albany, 1855. 1 v., 9 x 5, b. p. Af-5, p. 1051.

——Report of the Committee appointed by the Stockholders; made to the Stockholders; 1858-61, '63. Albany, 1858-63. 5 v., 10 x 6, b. p. Af-222, p. 605.

175 **NEW YORK, LAKE ERIE & WESTERN R. R.** Report of the Board of Directors to the Share and Bondholders; 1879-80. N. Y., 1879-80. 2 v., 9 x 6, pap.

110 **NEW YORK, NEW HAVEN & HARTFORD R. R.** Annual Report of the Board of Directors to the Stockholders; 10th-14th; 1881-85. New Haven & N. Y., 1882-86. 5 v., 9 x 6, pap.

291 **NEW YORK, PENNSYLVANIA & OHIO R. R.** Annual report of the Board of Directors to the Bondholders and Shareholders; 1st; 1880. Cleveland, 1881. 1 v., 12 x 9, pap.

4 **NEW YORK, PROVIDENCE & BOSTON R. R.** Report of the Directors to the Stockholders; 1851. 1 v., 9 x 5, b. p. no title-page.

111 **NEW YORK, WEST SHORE & CHICAGO R. R.** Report of the Engineer-in-Chief, May, 1871. N. Y., 1871. 1 v., 10 x 7, pap.

NIAGARA FALLS & LAKE ONTARIO R. R. Statement of the Company. N. Y., 1853. 1 v., map, 8 x 5, b. p. Ab-1, p. 141.

5 **NORFOLK & PETERSBURG R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1854. Norfolk, Va., 1854. 1 v., 9 x 6, b. p.

286 **NORFOLK & WESTERN R. R.** Annual report of the Board of Directors to the Stockholders; 9th-12th, 14th; 1889-92, '94. Phil., 1890-95. 5 v., 9 x 6, mor., pap.

268 **NORTH BRITISH RY.** Report by the Directors to the half-yearly general meeting of the Shareholders; 79th-82d; 1883-85. Edin., 1883-85. 4 v., 15 x 10, pap.

100 **NORTH MISSOURI R. R.** Annual report of the Board of Directors to the Stockholders; 11th; 1864. St. Louis, 1864. 1 v., 9 x 6, pap.

192 **NORTH PENNSYLVANIA R. R.** Annual report of the Board of Directors, with the report of the Treasurer and the Engineer and Superintendent; 16th, 25th. Phil., 1869-78. 2 v., 9 x 6, pap.

263 **NORTHEASTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 59th-62d; 1883-85. Newcastle-on-Tyne, 1883-85. 4 v., 15 x 10, pap.

NORTHERN CENTRAL RY. Address of the President and Directors to the Stockholders, May 17th, 1855. Balt., 1855. 1 v., 9 x 5, b. p. Af-4, p. 241.

102 ——Annual report of the President and Directors to the Stockholders; 8th, 16th; 1862, '70. Balt., 1863-71. 2 v., 9 x 6, pap.

108 **NORTHERN ILLINOIS R. R.** Report; 1st; 1862. Racine, 1862. 1 v., 9 x 5, pap.

NORTHERN INDIANA R. R. and MICHIGAN SOUTHERN R. R. Report of the Boards of Directors, July 30th, 1853. N Y.. 1853. 1 v., map, tab., 9 x 6, b. p. Ab-8, p. 143.

108 **NORTHERN PACIFIC R. R.** Report of the Comptroller, for the fiscal year ending June 30th, 1895. N. Y., 1895. 1 v., 9 x 6, pap.

189 ——Report of the Board of Directors to the Stockholders at their annual meeting; 1876-93. N. Y., 1876-93. 18 v., 9 x 6, pap.

106 **NORTHERN R. R.** Annual report of the Directors; 33d-34th; 1878-79. Concord, N. H., 1878-79. 2 v., 9 x 6, pap.

——Same; 7th; 1852. 1 v., 8 x 5, b. p. Ab-1, p. 327.

——Report of the Directors submitted to the Stockholders, July 25th, 1855. Bost., 1855. 1 v., 9 x 6, b. p. Af-5, p. 401.

195 **NORTHERN RY. OF CANADA.** Report submitted by the Canadian Board of Directors, at the annual meeting of the Proprietors; 1872. Toronto, 1873. 1 v., 9 x 6, pap.

157 **NORTHWESTERN R. R.** Annual report of the President and Directors, with the report of the Chief Engineer; 2d; 1854. Phil., 1855. 1 v., 9 x 6, pap.

104 **NORTHWESTERN VIRGINIA R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1857. Balt., 1857. 1 v., 9 x 6, pap.

273 **OAHU RY. & LAND CO.** Annual report and statement of accounts for the year ending Dec. 31st, 1890. Honolulu, 1891. 1 v., 9 x 6, pap.

OGDENSBURG, CLAYTON & ROME R. R. Report of the Chief Engineer, and of the President and Directors; and letter of John B. Jervis, Apr. 20th, 1851. Rome, N. Y., 1854. 1 v., map, 9 x 5, b. p. Af-5, p. 349.

Ag—(*Continued*).

122 **OHIO & MISSISSIPPI RY.** Report of the President and Directors to their Stockholders, for the fiscal year ending June 30th, 1872, '85. St. Louis & Cin., 1873-85. 2 v., 9 x 6, pap.

121 **OHIO & MISSISSIPPI R. R., EASTERN DIVISION.** Annual reports of the President and Directors to the Stockholders; 1857-58, 1858-59. Cin., 1859. 1 v., 9 x 6, pap.

156 **OHIO & PENNSYLVANIA R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1853. Pittsburg, 1854. 1 v., 9 x 6, pap.

——Same; 5th; 1852. 1 v., 9 x 6, b. p. Ah-28, p. 441.

——Same; 7th; 1854. 1 v., 9 x 5, b. p. Af-8, p. 279.

8 ——Report of the Chief Engineer to the President and Directors; 1st-2d; 1849-50. Phil., 1849-50. 2 v., 9 x 5, b. p.

220 **OIL CREEK & ALLEGHENY RIVER RY.** Annual report; 7th; 1874. Titusville, 1875. 1 v., 8 x 6, pap.

OLD COLONY & FALL RIVER R. R. Annual report of the Directors to the Stockholders; 2d; 1855. Bost., 1856. 1 v., 9 x 5, b. p. Ah-26, p. 198.

5 **OLD COLONY R. R.** Annual report of the Directors of the Corporation to the Stockholders; 10th; 1854. Bost., 1854. 1 v., 9 x 6, b. p.

216 ——Annual report of the Directors to the Stockholders; 23d; 1886. Bost., 1886. 1 v., 9 x 6, pap.

ONTARIO, SIMCOE & HURON R. R. Report submitted by the Board of Directors to the annual meeting of the Proprietors; July, 1854-55. Toronto, 1854-55. 2 v., 8 x 5, b. p. Ah-26, p. 519.

248 **ORANGE & ALEXANDRIA R. R.** Proceedings of the annual meeting of the Stockholders; 6th, 8th-9th; 1855, '57-58. Alexandria, Va., 1855-58. 3 v., 9 x 5, pap.

——Proceedings of the called meeting of the Stockholders., Dec., 1849. Alexandria, Va., 1850. 1 v., 8 x 5, b. p. Ad-1, p. 960.

173 **OREGON RY. & NAVIGATION CO.** Annual report of the President to the Stockholders; 1st; 1880. N. Y., 1880. 1 v., 9 x 6, pap.

120 **PACIFIC R. R.** Annual report of the Board of Directors to the Stockholders; 5th, 19th; 1855, '69. St. Louis, 1855-69. 2 v., 9 x 6, pap.

——Same; 1st-3d, 5th-6th, 8th; 1851-53, '55-56, '58. 6 v., 9 x 5, b. p. Af-217, p. 19.

——Annual report to the Secretary of the State of Missouri; 3d; 1854. St. Louis, 1854. 1 v., 8 x 5, b. p. Af-7, p. 621.

——Report of the Committee appointed by the Directors to investigate the causes of the accident at Gasconade Bridge. St. Louis, 1855. 16 pp., 9 x 6, b. p. Ah-26, p. 1157.

225 ——Seventh annual report of the Board of Directors of the P. R. R. to the Stockholders. Note: Satire on the management of the Pacific R. R., written in the form of an annual report. no place, 1857. 1 v., 9 x 6, pap.

276 **PENNSYLVANIA R. R.** Annual report of the Board of Directors to the Stockholders; presented at their annual meeting; 1st-51st; 1847-97. Phil., 1847-98. 51 v. in 14. 8 x 5, 9 x 6, 12 x 10, ¾ mor., pap.

20 ——Annual report of the Chief Engineer; 1st; 1848. Phil., 1848. 1 v., 9 x 6, pap.

222 ——Length of tracks of the railroads owned, leased, operated, and controlled by the P. R. R. Co. 1880. 1 v., 11 x 9, pap. no title-page.

276 ——Proceedings of the adjourned annual meeting of the Stockholders, Apr. 30th, 1867. Phil., 1867. 1 v., 9 x 6, b. p.

277 ——Record of transportation lines owned and operated by, and associated in interest with, the company; 1880, '83-86, '89-90, '92-93, '95. Phil., 1881-96. 10 v., 12 x 9, pap.

PHILADELPHIA & COLUMBIA R. R. Report of the Superintendent of motive power, for the fiscal year ending Nov. 30th, 1852. no place, 1852. 1 v., tab., 9 x 6, b. p. Ah-28, p. 341.

161 ——Superintendent's report; 1854. Harrisburg, 1854. 1 v., 9 x 6, pap.

——Same; 1855. 1 v., 9 x 6, b. p. Ab-6, p. 465.

224 **PHILADELPHIA & ERIE R. R.** Annual report of the Managers to the Stockholders; 28th, 42d; 1879, '93. no place, 1879-93. 2 v., 9 x 6, pap.

49 **PHILADELPHIA & READING R. R.** Report of the President and Managers to the Stockholders; 1844-86, '89-91. Phil., 1845-91. 47 v. in 35, 9 x 5, b. p.

PHILADELPHIA, GERMANTOWN & NORRISTOWN R. R. Report of the President and Managers to the Stock and Loan holders, for the year ending Oct. 31st, 1852. Phil., 1852. 1 v., 9 x 6, b. p. Ah-28, p. 409.

117 **PHILADELPHIA, WILMINGTON & BALTIMORE R. R.** Annual report; 21st, 24th-25th, 36th, 38th-39th, 46th-48th; 1858, '62-63, '73, '75-76, '83-85. Pittsburg, 1859-86. 9 v., 9 x 6, pap.

281 ——Annual report, with the report of the Chief Engineer; 11th; 1848. Phil., 1849. 1 v., 8 x 5, b. p.

Ag—(*Continued*).

164 **PITTSBURGH & CONNELLSVILLE R. R.** Annual report of the President and Directors and the Chief Engineer to the Stockholders; 1853. Pittsburg, 1853. 1 v., 9 x 6, pap.

162 **PITTSBURGH & STEUBENVILLE R. R.** Annual report of the President and Directors to the Stockholders; 2d; 1853. Pittsburg, 1853. 1 v., 9 x 6, pap.

204 **PITTSBURGH, CINCINNATI & ST. LOUIS RY.** Annual report of the Board of Directors to the Stockholders; 7th, 12th. Pittsburg & Phil., 1875-80. 2 v., 9 x 6, pap.

166 **PITTSBURGH, FORT WAYNE & CHICAGO RY.** Annual report of the Directors to the Stockholders; 1st-6th; 1862-67. Pittsburg, 1863-68. 6 v., 9 x 6, pap.

119 ——Annual report of the General Freight Agent; 1868. Pittsburg, 1869. 1 v., 9 x 5, pap.

118 ——Report of the Comptroller, and of the General Superintendent. to the Board of Directors; 1862. Pittsburg, 1863. 1 v., 9 x 6, pap.

163 ——Semi-annual report of the Directors to the Shareholders; 2d; 1859. Pittsburg, 1859. 1 v., 9 x 6, pap.

200 **PITTSBURGH, TITUSVILLE & BUFFALO RY.** Annual report; 1st, 3d-5th; 1876, '78-80. Phil., 1877-81. 4 v., 9 x 6, pap.

114 **PORTLAND & OGDENSBURG R. R.** Annual report of the President and Directors to the Stockholders; 9th-11th; 1878-80. Portland, Me., 1878-80. 3 v., 9 x 6, pap.

POTSDAM & WATERTOWN R. R. Exhibit, with a map showing its relations to other and connecting lines of railway, June 1st, 1854. N. Y., 1854. 1 v., map, 9 x 6, b. p. Af-5, p. 263.

133 **RACINE & MISSISSIPPI R. R.** Annual report; 3d; 1856. N. Y., 1856. 1 v., 9 x 6, pap.

RACINE, JANESVILLE & MISSISSIPPI R. R. Annual report; 1st. Racine, Wis., 1854. 1 v., maps, 9 x 5, b. p. Af-7, p. 201.

130 **RICHMOND & PETERSBURG R. R.** Proceedings of the Stockholders at their general meetings, and reports made by the President and Directors to the Stockholders; 20th, 24th; 1855, '59. Richmond, Va. 1855-59. 2 v., 8 x 5, 9 x 6. pap.

245 **RICHMOND, FREDERICKSBURG & POTOMAC R. R.** Annual meeting of the Stockholders; 6th; 1839. Richmond, Va., 1839 1 v., 9 x 5, pap.

240 **RIO GRANDE WESTERN RY.** Annual report to the Stockholders; 1890-93, '95. N. Y., no date. 5 v., 9 x 6, pap.

172 **ROME, WATERTOWN & OGDENSBURG R. R.** Annual report of the Board of Directors; 1883-84, '86. N. Y., 1884-87. 3 v., 9 x 6, pap.

4 **RUTLAND & BURLINGTON R. R.** Annual report of the Directors; 5th; 1852. Bost., 1852. 1 v., 9 x 6, b. p.

129 **RUTLAND R. R.** Reports of the Managers to the Stockholders; with the official proceedings of the annual meeting; 1871. Rutland, Vt., 1872. 1 v., 9 x 6, pap.

128 **SACKET HARBOR & SARATOGA R. R.** Annual report; 2d; 1854. N.Y., 1854. 1 v., 9 x 6, pap.

244 **ST. LAWRENCE & ATLANTIC R.R.** Proceedings of a special general meeting of Proprietors, held in Montreal on the 30th of July, 1846; and report of A. C. Morton, Chief Engineer. Montreal, 1846. 1 v., 9 x 5, pap.

——Proceedings of the third annual general meeting of Proprietors of the St. L. & A. R. R., held in Montreal on the 19th of Jan., 1848; with the report of the Directors and Chief Engineer. Montreal, 1848. 1 v., 8 x 5, b. p. Ad-1, p. 642.

251 ——Report of the President and Directors; 1847. Portland, 1847. 1 v., 9 x 6, pap.

126 **ST. LOUIS, ALTON & CHICAGO R. R.** Yearly report of the Receiver to the Trustees; 2d; 1861. Chic., 1862. 1 v., 9 x 6, pap.

122 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Annual report of the Board of Directors; 1st-3d; 1862-65. N. Y., 1864-66. 3 v., 9 x 6, pap.

131 ——General Superintendent's report of operations and business; June 30th, 1863. St. Louis, 1863. 1 v., 9 x 6, pap.

123 **ST. LOUIS & IRON MOUNTAIN R. R.** Annual report of the Board of Directors; 11th-12th; 1863-64. St. Louis. 1863-64. 2 v., 9 x 6, pap.

——Same; 2d; 1854. 1 v., 9 x 6, b. p. Aj-1, p. 416.

207 **ST. LOUIS & SOUTHEASTERN RY.** Annual report of the Receivers; 3d; 1877. St. Louis, 1878. 1 v., 9 x 6, pap.

210 **ST. LOUIS, IRON MOUNTAIN & SOUTHERN RY.** Annual report to the Stockholders; 4th; 1877. St. Louis, 1878. 1 v., 9 x 6, pap.

217 **ST. LOUIS, VANDALIA & TERRE HAUTE R. R.** Annual report of the President and Treasurer of the operations of the Company; 4th; 1874. Pittsburg, 1875. 1 v., 9 x 6, pap.

241 **ST. PAUL, MINNEAPOLIS & MANITOBA RY.** Annual report; 13th-14th, 16th; 1892-93, '95. no place, no date. 3 v., 9 x 6, pap.

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274 **SAN FRANCISCO & MARYSVILLE R. R.** Reports of the Board of Directors and Chief Engineer, at the annual meeting of the Stockholders; 1860. Marysville, 1860. 1 v., 9 x 6, pap.

124 **SCHUYLKILL HAVEN & LEHIGH RIVER R. R.** Report of Commissioners; with report of survey by Alex. W. Rea. Phil., 1857. 1 v., 9 x 6, pap.

219 **SEABOARD & ROANOKE R. R.** Annual report of the President and Directors to the Stockholders; 26th; 1874. Norfolk, 1874. 1 v., 9 x 6, pap.

222 **SONORA RY.** Annual report of the Board of Directors to the Stockholders; 2d; 1881. Bost., 1882. 1 v., 9 x 6, pap.

158 **SOUTH CAROLINA CANAL & R. R. CO.** Semi-annual report; Jan., 1840. Charleston, 1840. 1 v., 8 x 5, pap.

165 **SOUTH CAROLINA R. R. and SOUTHWESTERN RAILROAD BANK.** Proceedings of the Stockholders; 1852-54. Charleston, 1852-54. 3 v., 9 x 6, pap.

266 **SOUTHEASTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 94th-98th, 100th; 1883-86. Lond., 1883-86. 6 v., 14 x 10, pap.

285 **SOUTHERN PACIFIC CO.** Annual report of the Company; its proprietary properties, and leased lines; 1889-92. San Francisco, 1890-93. 4 v., 12 x 9, pap.

127 **SOUTHERN PENNSYLVANIA IRON & R. R. CO.** Report of the President and Directors to the Stockholders; 1871. Phil., 1871. 1 v., 9 x 6, pap.

7 **SOUTHWESTERN R. R.** Report of the President to the Stockholders; 5th. Macon, Ga., 1852. 1 v., 9 x 6, b. p.

283 **SULLIVAN R. R.** Reports of the Directors and Treasurer; 1847. Claremont, N. H., 1847. 1 v., 7 x 4, b. p.

125 **SUNBURY & ERIE R. R.** Annual report of the Board of Managers to the meeting of the Stockholders; 3d, 9th; 1853, '60. Phil., 1853-60. 2 v., 9 x 6, pap.

SUSQUEHANNA R. R. Annual report of the President and Directors; accompanied by the report of the Chief Engineer; 1854. Harrisburg, Pa., 1854. 1 v., map, 9 x 5, b. p. Ab-6, p. 427.

98 **SYRACUSE & UTICA R. R.** Report to the Assembly; 1841. no place, 1842 (?) 1 v., 9 x 6, b. p. no title-page.

233 **TEBO & NEOSHO R. R.** Annual report of the President and Directors; 1869. St. Louis, 1869. 1 v., 9 x 6, pap.

145 **TENNESSEE & PACIFIC R. R.** Annual report; 1st; 1871. Nashville, 1871. 1 v., 9 x 6, pap.

7 **TERRE HAUTE & ALTON R. R.** Annual report of the President and Directors to the Stockholders; 1st; 1853. N. Y., 1853. 1 v., maps, 9 x 6, b. p.

139 **TERRE HAUTE & INDIANAPOLIS R. R.** Annual report of the President and Directors to the Stockholders, for the year ending Nov., 1871. Terre Haute, Ind., 1872. 1 v., 9 x 6, pap.

140 **TERRE HAUTE & RICHMOND R. R.** Annual report of the President and Directors to the Stockholders; 6th; 1854. Indianapolis, 1855. 1 v., 9 x 6, pap.

79 **TEXAS & PACIFIC RY. and MISSOURI PACIFIC RY.** Report to the Stockholders; 1884. N. Y., 1885. 1 v., 9 x 6, pap.

TOLEDO & ILLINOIS R. R. and THE LAKE ERIE, WABASH & ST. LOUIS R. R. Report; June, 1855. N. Y., 1855. 1 v., 9 x 5, b. p. Af-8, p. 359.

135 **TOLEDO & WABASH RY.** Annual report to the Stockholders; 3d; 1861. Toledo, 1861. 1 v., 10 x 7, pap.

134 **TOLEDO, WABASH & WESTERN RY.** Annual report to the Stockholders, 1869. Toledo, 1870. 1 v., 10 x 7, pap.

116 **TORONTO & NIPISSING RY.** Report of the Directors; 1872. Toronto, 1872. 1 v., 9 x 6, pap.

176 **TROY & GREENFIELD R. R. and HOOSAC TUNNEL CO.** Annual report; 3d, 11th; 1853, '61. no place, 1853-61. 2 v., 9 x 6, pap.

177 ——Annual report of the Manager; 1880. 1 v., 9 x 6, pap. no title-page.

——Report for the six months ending Dec. 31st, 1875. Bost., 1876. 1 v., 9 x 6, pap. Af-158.

91 **TUSCUMBIA, COURTLAND & DECATUR R. R.** Annual report of the officers; 3d-4th; 1835-36. Tuscumbia, Ala., 1836. 1 v., 8 x 5, pap.

144 **UNION PACIFIC R. R.** Annual report of the Chief Engineer; with accompanying reports of Chiefs of Parties; 1866-69. Wash., 1868-70. 3 v., 9 x 6, pap.

141 ——Report of the organization and proceedings of the Company. N. Y., 1864. 1 v., 9 x 6, pap.

142 ——Report of the Vice-President and General Manager to the Board of Directors, in relation to the operations of the Engineer Department, and the construction of the road; 1864-65. N. Y., 1866. 2 v., 9 x 6, pap.

143 ——Report to the Stockholders; 1877. N. Y., 1878. 1 v., 9 x 6, pap.

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298 **UNION PACIFIC RY.** Annual report of the Directors to the Stockholders; 11th-14th; 1890-93. Bost., 1891-94. 4 v., 12 x 9, pap.

242 **UTICA & SCHENECTADY R. R.** Annual report to the Directors; 3d; 1836. no place, no date. 1 v., 9 x 6, pap.

——Communications from the Treasurer transmitting a statement of the receipts and expenditures of the Company. Albany, 1841. 1 v., 9 x 6, b. p. Ab-5, p. 571.

——Report in answer to a resolution of the Assembly of the 5th of Feb. Albany, 1841. 1 v., 9 x 6, b. p. Ab-5, p. 527.

——Report to the Assembly. Albany, 1842. 1 v., 9 x 6, b. p. Ab-5, p. 623.

——Statement; Dec. 31st, 1846. Schenectady, N. Y., 1847. 1 v., 8 x 5, b. p. Ad-1, p. 580.

136 **VERMONT & MASSACHUSETTS R. R.** Annual report of the Directors to the Stockholders; 1850. Cambridge, Mass., 1851. 1 v., 9 x 6, pap.

——Same; 1856. 1 v., 9 x 6, b. p. Ah-26, p. 203.

138 **VICKSBURG, SHREVEPORT & TEXAS R. R.** Annual report of the President and Directors and Chief Engineer, submitted to the Stockholders; 6th; 1858. Monroe, La., 1858. 1 v., 9 x 5, pap.

VIRGINIA & TENNESSEE R. R. Annual report of the President and Directors to the Stockholders; 8th; 1855. Richmond, 1855. 1 v., 9 x 6, b. p. Ab-6, p. 1117.

——Same; 2d; 1849. 1 v., 8 x 5, b. p. Ad-1, p. 1010.

——Same; 7th; 1854. 1 v., 8 x 5, b. p. Ae-1, p. 623.

199 **VIRGINIA CENTRAL R. R.** Annual report of the President and Directors to the Stockholders at their annual meeting; 18th, 32d; 1853, '67. Richmond, 1853-67. 2 v., 9 x 6, pap.

WATERTOWN & ROME R. R. Report of the Superintendent to the Directors of the W. & R. R. R.; Dec., 1852. R. B. Doxtater. Rome, N Y., 1852. 1 v., map, 9 x 6, b. p. Ab-3, p. 155.

208 **WEST CHESTER & PHILADELPHIA R. R.** Annual report of the President and Managers; 21st; 1870. Phil., 1870. 1 v., 9 x 6, pap

——Same; 3d; 1852. 1 v., 9 x 6, b. p. Ah-28, p. 381.

5 ——Same; 4th; 1854. 1 v., 9 x 6, b. p.

159 **WESTERN & ATLANTIC R. R.** Reports of the Superintendent and Treasurer to the Governor of Georgia; 1855. Atlanta, 1855. 1 v., 9 x 6, pap.

149 **WESTERN RAILROAD CORPORATION.** Annual report of the Directors to the Stockholders; 1st, 6th-8th, 10th, 17th, 19th, 24th, 29th, 31st, 33d; 1836, '41-43, '45, '52, '54, '59, '64, '66, '68. Bost. & Springfield, Mass., 1836-68. 11 v., 9 x 6, pap.

278 ——Same; 1st-6th; 1836-41. 6 v., 9 x 5, b. p.

148 ——Proceedings; with a report of the Committee of Investigation; 1843. Bost., 1843. 1 v., 9 x 5, pap.

——Report of the Committee of the Stockholders appointed at the annual meeting in Feb., 1851, to examine into the system of accountability in the Collecting and Disbursing Departments; and also the condition and value of the property of the Corporation; submitted to the Stockholders at their annual meeting, Feb., 1852. Bost., 1852. 1 v., 8 x 5, b. p. Ab-1, p. 25.

194 **WEST WISCONSIN RY.** Report of the condition of the Company; Dec. 1st, 1876. N. Y., 1876. 1 v., maps, 9 x 6, pap.

212 **WILLIAMSTON & TARBORO' R. R.** Annual meeting of the Stockholders; 1867-68. Tarboro', N. C., 1869. 1 v., 8 x 5, pap.

WILMINGTON & MANCHESTER R. R. Proceedings of the annual meeting of the Stockholders; 5th, 7th; 1853, '55. Wilmington, N. C., 1853-55. 2 v., 9 x 6, b. p. Ah-26, pp. 623, 687.

WILMINGTON & RALEIGH R. R. Proceedings of the Stockholders at their annual meeting; 15th-17th; 1850-52. Wilmington, N. C., 1850-52. 3 v., 8 x 5, b. p. Ab-1, p. 425.

90 **WILMINGTON & READING R. R.** Report of the Directors to the Stockholders; 1869. Wilmington, Del., 1870. 1 v., 9 x 6, pap.

146 **WORCESTER & NASHUA R. R.** Annual report of the Directors to the Stockholders; 1879-80. Worcester, 1879-80. 2 v., 9 x 6, pap.

170 **WRIGHTSVILLE & TENNILLE R. R.** Annual report; 1st-7th; 1884-90. Savannah & Tennille, 1886-90. 7 v. in 6, 9 x 6, pap.

YORK & CUMBERLAND R. R. Annual report of the President and Directors; 3d-6th; 1851-54. Balt., 1851-54. 4 v., 9 x 5, b. p. Af-4, p. 757.

——Annual reports to the Stockholders of the Directors, Engineer, and Treasurer; Aug., 1850. Portland, Me., 1850. 1 v., 8 x 5, b. p. Ab-1, p. 409.

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69 **ALABAMA—RAILROAD COMMISSIONERS.** Annual report; 6th; 1886. Montgomery, 1887. 1 v., 9 x 6, cl.

45 **CALIFORNIA—COMMISSIONERS OF TRANSPORTATION.** Biennial report; 2d; 1877-78. Sacramento, 1879. 1 v., 9 x 6, cl.

44 ——Report to the Legislature; 1877. Sacramento, 1877. 160 pp., 9 x 6, cl.

75 **CALIFORNIA—RAILROAD COMMISSIONERS.** Annual report; 9th-10th; 1888-89. Sacramento, 1889. 2 v., 9 x 6, cl.

15 **CONNECTICUT—RAILROAD COMMISSIONERS.** Annual report; to which are added statistical tables compiled from annual returns of the railroad companies of the state; 19th-47th; 1871-99. Hartford, 1872-99. 27 v., 9 x 6, cl., pap.

26 ——Same; 1854-55. 1 v., 9 x 6, b. p.

73 **DAKOTA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 2d; 1886. Grand Forks, 1886. 1 v., 9 x 6, pap.

18 **GEORGIA—RAILROAD COMMISSION.** Annual report; 21st; 1893. Atlanta, 1893. 1 v., 9 x 6, pap.

20 **ILLINOIS—RAILROAD AND WAREHOUSE COMMISSION.** Annual report; 1st-24th; 1871-94. Note: Reports 8th, 10th, 12th-14th, 17th, wanting. Springfield, 1872-95. 18 v., 9 x 6, cl.

14 **IOWA—BOARD OF RAILROAD COMMISSIONERS.** Annual report for the year ending June 30th: 1st-20th; 1878-97. Des Moines, 1878-98. 20 v., 9 x 6, cl.

21 ——Before the Board in the matter of the application of the Illinois Central R. R. Co.; the Chicago, Milwaukee & St. Paul Ry. Co.; the Chicago & Northwestern Ry. Co.; the Chicago, Rock Island & Pacific Ry. Co.; the Chicago, Burlington & Quincy R. R. Co., etc., for the advance in freight rates; decided Jan. 12th, 1895. ed. 2. Des Moines, 1895. 51 pp., 9 x 6, pap.

13 ——Index to all reports, 1878-1894, inclusive. no place, no date. pp. 431-480, 9 x 6, pap.

42 **IOWA—EXECUTIVE COUNCIL.** Annual report of the assessed valuation of railroad property in the State; 1879, '97. Des Moines, 1879-97. 2 v., 9 x 6, pap.

72 **KANSAS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 4th-7th, 9th; 1886-89, '91. Topeka, 1886-92. 5 v., 9 x 6, cl.

70 **KENTUCKY—RAILROAD COMMISSIONERS.** Report; 7th, 9th-10th; 1886, '88-89. Frankfort, 1887-89. 3 v., 10 x 6, cl.

57 **MADRAS—PUBLIC WORKS DEPARTMENT—RY. BRANCH.** Administration report; 1897-99. Madras, 1898-99. 2 v., 13 x 6, pap.

16 **MAINE—RAILROAD COMMISSIONERS.** Annual report; with statistical tables compiled from the annual returns of the railroad companies operating railroads in the state; 21st-22d, 27th, 33d-39th, 41st; 1879-80, '85, '91-97, '99. Augusta, 1879-99. 11 v., 9 x 6, pap., cl.

MARYLAND—COMMITTEE ON WAYS AND MEANS. Report in compliance with the orders of the House of Delegates in relation to the subscription of the state to certain Internal Improvement Companies. no place, 1836. 96 pp., 9 x 6, b. p. Cfb-5, p. 217.

MASSACHUSETTS. Report of the Joint Special Committee to whom so much of the Governor's address, as related to those railroad corporations for which the state has assumed liabilities, was referred. Bost., 1850. 36 pp., 9 x 5, b. p. Ag-278, p. 427.

——Report of the Joint Special Committee, to whom was referred an order of the 19th of January, in relation to the past management and present condition of the Western R. R. Corporation. no place, 1843. 41 pp., 9 x 5, b. p. Ag-279, p. 245.

MASSACHUSETTS—BOARD OF DIRECTORS OF INTERNAL IMPROVEMENTS. Report on the practicability and expediency of a railroad from Boston to the Hudson River and from Boston to Providence, submitted to the General Court, Jan. 16th, 1829; to which are annexed the reports of the engineers, containing the results of their surveys, and estimates of the cost of constructing a railroad on each of the routes selected. Bost., 1829. 76 + 119 pp., map, 9 x 5, b. p. Ab-362, p. 25.

8 **MASSACHUSETTS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1st-31st; 1870-99. Bost., 1872-1900. 31 v., 9 x 6, cl.

30 ——Report on the Boston & Maine R. R. strike of Feb. 12th, 1877. Bost., 1877. 17 pp., 9 x 6, pap. no title-page.

9 ——Special report to the Legislature in relation to the disaster on Mar. 14th, 1887, on the Dedham Branch of the Boston & Providence R. R., at the bridge commonly known as the Bussey Bridge. Bost., 1887. 420 pp., pl., 9 x 6, cl.

——Report of the Commissioner appointed under the resolve of 1849, Chap. 94, relating to railroads crossing each other in the vicinity of Boston, with accompanying plans. no place, 1850. 13 pp., maps, 9 x 5, b. p. Ad-3, p. 745.

6 **MASSACHUSETTS—COMMITTEE ON RAILWAYS AND CANALS.** Annual report of the railroad corporations; 1842-49. Bost., 1843-50. 2 v., 9 x 6, ½ ro.

——Same; 1839. 1 v., 9 x 5, b. p. Ag-278, p. 355.

Ah—(*Continued*).

MASSACHUSETTS—JOINT SPECIAL COMMITTEE ON RAILROADS. Report on so much of the Governor's address as relates to those railroad corporations for which the state has assumed liabilities. Bost., 1840. 36 pp., 9 x 5, b. p. Ab-96, p. 43.

MASSACHUSETTS—JOINT SPECIAL COMMITTEE ON THE TUNNEL LINE OF RAILROAD. Report of the committee, to whom was referred that portion of the Governor's message which relates to the Tunnel Line of Railroad. no place, 1874. 48 pp., 9 x 6, b. p. no title-page. Ab-7, p. 599.

7 MASSACHUSETTS—SECY. OF THE COMMONWEALTH. Annual reports of the railroad corporations, to which is added an abstract of said returns; 1851-54, '65-67. Bost., 1852-68. 7 v., 9 x 6, pap., cl.

47 MASSACHUSETTS—TROY & GREENFIELD R. R. AND HOOSAC TUNNEL COMMISSIONERS. Annual report; 1863-68. Bost., 1863-69. 6 v., 9 x 6, pap.

38 MASSACHUSETTS—JOINT STANDING COMMITTEE ON TROY & GREENFIELD R. R. AND HOOSAC TUNNEL. Report; 1864-72. Note: Report for 1871 wanting. Bost., 1865-73. 8 v., 9 x 6, pap.

36 MICHIGAN—AUDITOR GENERAL. Compilation of the annual reports of the railroad corporations; 1867. Lansing, 1868. 1 v., 9 x 6, pap.

3 MICHIGAN—COMMISSIONER OF RAILROADS. Annual report; 1st-8th, 19th; 1872-79, '91. Lansing, 1874-91. 9 v., 9 x 6, cl.

31 ——Comparative summary from returns of 1874-1878, showing percentages of increase and decrease; prepared for the report for 1878. no place, no date. 2 pp., 16 x 14, pap. no title-page.

35 MINNESOTA—RAILROAD COMMISSIONER. Annual report; 1875. St. Paul, 1876. 1 v., 9 x 6, pap.

MISSOURI—BOARD OF PUBLIC WORKS. Report; made to the Governor of the State of Missouri, Dec., 1855. Jefferson City, 1855. 68 pp., 9 x 5, b. p. Af-217, p. 479.

22 MISSOURI—RAILROAD COMMISSIONERS. Annual report; 5th-6th, 12th; 1879-80, '86. St. Louis, no date. 2 v., 9 x 6, cl.

43 NEW HAMPSHIRE—RAILROAD COMMISSIONERS. Annual report; 47th-51st; 1891-1895. Concord, 1892-96. 5 v., 9 x 6, cl.

NEW JERSEY—LEGISLATURE. Report of the committee appointed to examine into the condition, affairs, revenue, and future prospects of the New Jersey Railroad & Transportation Co. Trenton, 1837. 19 pp., 8 x 5, b. p. Ac-139, p. 297.

32 NEW JERSEY—SECRETARY OF STATE. Annual reports of the Railroad and Canal Companies of the State; 1854, '59, '64, '67. Trenton, 1854-68. 4 v., 9 x 6, pap.

NEW YORK—(ASSEMBLY) COMMITTEE ON ALBANY & WEST STOCKBRIDGE RAILROAD. Report of the Select Committee on the petition of the Mayor and Commonalty of the city of Albany relative to raising money for making the A. & W. S. R. R. no place, 1839. 5 pp., 9 x 6, b. p. Ab-5, p. 119.

NEW YORK—(ASSEMBLY) COMMITTEE ON CLAIMS. Report on the petition of James Seymour for additional compensation for services as engineer rendered to the committee appointed by the House of Assembly of 1841, to investigate the affairs of the New York & Erie R. R. Co. Albany, 1843. 4 pp., 9 x 6, b. p. Cfh-87, p. 912.

NEW YORK—(ASSEMBLY) COMMITTEE ON RAILROADS. Report of the Majority of the Committee in relation to a railroad from Ogdensburg to Lake Champlain. no place, 1842. 3 pp., 9 x 6, b. p. Ab-5, p. 591.

——Report of the Majority of the Committee on the Memorial of the President and Directors of the New York & Erie R. R. Co., and several petitions of sundry citizens of the southern tier of counties in the State. no place, 1840. 27 pp., 9 x 6, b. p. Ab-5, p. 249.

——Report of the Majority of the Committee on the petition of the Mohawk & Hudson River R. R. Co. for state aid. Albany, 1839. 10 pp., 9 x 6, b. p. Ab-5, p. 219.

——Report of the Majority of the Committee on the petitions of several railroad companies, and the petitions of sundry citizens of various counties in the state, praying for state aid. no place, 1839. 31 pp., 9 x 6, b. p. Ab-5, p. 165.

——Report of the Majority of the Committee on the petitions of the New York & Albany R. R. Co., and others. no place, 1839. 39 pp., 9 x 6, b. p. Ab-5, p. 63.

——Report of the Majority of the Committee, upon the petitions of sundry inhabitants of the northern counties in this State, praying for aid to the Washington & Saratoga R. R. Co. no place, 1840. 3 pp., 9 x 6, b. p. Ab-5, p. 331.

——Report on a petition of the President, Directors and Company of the Auburn & Rochester R. R. Company and the petitions of sundry citizens. Albany, 1839. 4 pp., 9 x 6, b. p. Ab-5, p. 49.

Ah—(*Continued*).

——Report on communications from the Albany & West Stockbridge and the Hudson & Berkshire R. R. Cos., relative to certain contracts between those companies, etc. no place, 1841. 9 pp., 9 x 6, b. p. Ab-5, p. 561.

——Report on petitions for and remonstrances against aid from the state to expedite the construction of the Saratoga & Washington R. R. no place, 1841. 7 pp., 9 x 6, b. p. Ab-5, p. 543.

——Report on petitions for the construction by the state of a railroad from Ogdensburg to Lake Champlain. no place, 1841. 10 pp., 9 x 6, b. p. Ab-5, p. 497.

——Report on the memorial of the President, Directors and Company of the New York & Erie R. R. Co., and the memorials and petitions of citizens of sundry counties. no place, 1839. 22 pp., map, 9 x 6, b. p. Ab-5, p. 125.

——Report on the petition of inhabitants of the counties of St. Lawrence, Franklin, Clinton and Essex, in relation to the Ogdensburg & Lake Champlain R. R. no place, 1839. 15 pp., 9 x 6, b. p. Ab-5, p. 149.

——Report on the petition of the Hudson River R. R. Co., for an amendment of its charter. Albany, 1850. 4 pp., 8 x 5, b. p. Af-218, p. 413.

——Report on the petition of the President and Directors of the Schenectady & Troy R. R.Co. no place, 1839. 8 pp., 9 x 6, b. p. Ab-5, p. 197.

——Report on the petition of the President, Directors, and Company of the Canajoharie & Catskill R. R. Co., and others. no place, 1839. 5 pp., 9 x 6, b. p. Ab-5, p. 205.

——Report on the petitions of the President, Directors, and Company of the New York & Erie R. R. Co., and of sundry citizens. no place, 1838. 35 pp., 9 x 6, b. p. Ab-5, p. 13.

——Report on the petitions of the Saratoga & Washington R. R. Co., and others. no place, 1839. 10 pp., 9 x 6, b. p. Ab-5, p. 53.

——Report upon a resolution passed on the 6th day of March last, instituting an inquiry into the affairs of railroad companies. no place, 1840. 15 pp., 9 x 6, b p. Ab-5, p. 335.

NEW YORK—(ASSEMBLY) COMMITTEE ON WAYS AND MEANS. Report of the Majority of the Committee on the special message of the Governor respecting the imposition of tolls on railroads. no place, 1855. 16 pp., 9 x 6, b. p. Af-5, p. 1195.

48 **NEW YORK—(ASSEMBLY) SPECIAL COMMITTEE ON RAILROADS.** Proceedings of the Committee appointed under a resolution of the Assembly to investigate alleged abuses in the management of railroads chartered by the State of New York. N. Y., 1879. 3 v. in 7, 9 x 6, cl.

53 ——Testimony of George R. Blanchard before the Committee appointed to investigate alleged abuses in the management of the railroads of the State, Oct. 17th to 25th, 1879. N. Y., 1880. 692 + 55 pp., tab., 9 x 6, cl.

11 **NEW YORK—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1883–99. Albany, 1884–1900. 33 v., 9 x 6, cl.

54 ——Profile of the grades of the railroads of the State of New York. 27 pl., map, 15 x 10, ¾ mor. no title-page.

12 ——Report on strains on railroad bridges of the State, June 30th, 1891. Albany, 1891. 1880 pp., il., 9 x 6. mor.

29 ——Sections of rails. 41 pp., 10 x 7, ¾ mor. no title-page.

28 **NEW YORK—COMMISSIONERS OF NEW YORK & ERIE R. R.** Report of the Commissioners appointed by the act of May 11th, 1846, to locate certain portions of the N. Y. & E. R. R.; made to the Legislature, Jan. 14th, 1847. N. Y., 1847. 41 pp., maps, 8 x 5, pap.

——Report of the Minority of the Commissioners to locate certain parts of the N. Y. & E. R. R., made to the Assembly. Albany, 1847. 35 pp., 8 x 5, b. p. Ag-282, p. 209.

NEW YORK—COMMISSIONERS ON OGDENSBURG & LAKE CHAMPLAIN RAILROAD. Report of the Commissioners appointed to cause a survey to be made of the several routes for a railroad from Ogdensburg to Lake Champlain. Albany, 1841. 115 pp., map, 9 x 6, b. p. Ab-5, p. 351.

NEW YORK—GOVERNOR. Message to the Legislature relative to reimposition of canal tolls on railroads. Albany, 1855. 6 pp., 9 x 6. b. p. Af-5, p. 1207.

NEW YORK—RAILROAD COMMISSIONER. Annual report of the Commissioner, appointed under the act entitled "An act in relation to the construction of the New York & Erie R. R.;" 1843. Albany, 1844. 1 v., 10 x 6, b. p. Cfh-41, p. 39.

23 **NEW YORK—SECRETARY OF STATE.** Annual report relative to railroad statistics; 1845, '47. Albany, 1845–47. 2 v., 8 x 5, b. p.

——Same; 1844. 1 v., 9 x 6, b. p. Cfh-6, p. 337.

NEW YORK—(SENATE) COMMITTEE ON COMMERCE AND NAVIGATION. Report relative to the Panama R. R. no place, 1855. 7 pp., 9 x 6, b. p. Ag-5, p. 255.

Ah—(*Continued*).

28 **NEW YORK—(SENATE) COMMITTEE ON RAILROAD ACCIDENTS.** Report of the Committee appointed to examine and report the causes of railroad accidents, the means of preventing their recurrence, etc. Albany, 1853. 156 pp., 9 x 6, b. p.

NEW YORK — (SENATE) COMMITTEE ON RAILROADS. Report on sundry petitions for the immediate construction of the New York & Erie R. R. by the state. no place, 1839. 15 pp., 9 x 6, b. p. Ab-5, p. 103.

——Report on the bill to incorporate the Hudson River R. R. Co. Albany, 1843. 28 pp., 9 x 6, b. p. Cfh-37, p. 929.

——Report on the Memorial of the Sackets Harbor & Saratoga R. R. Co. no place, 1855. 24 pp., 9 x 6, b. p. Af-5, p. 1215.

——Report on the message of the Governor in relation to the deficiencies in the canal revenue. no place, 1855. 20 pp., 9 x 6, b. p. Af-5, p. 1167.

——Report on the petitions for the construction of the Ogdensburg & Champlain R. R. no place, 1840. 12 pp., 9 x 6, b. p. Ab-5, p. 229.

——Report on the petitions from the New York & Harlem, the Long Island, and the New York & Albany R. R. Cos., asking aid from the State. no place, 1840. 16 pp., 9 x 6, b. p. Ab-5, p. 309.

NEW YORK—STATE COMPTROLLER. Report in relation to the issue of certificates of state stock to the New York & Erie R. R. Co. Albany, 1841. 18 pp., 9 x 6, b. p. Ab-5, p. 497.

10 **NEW YORK—STATE ENGINEEER AND SURVEYOR.** Annual report on the railroads of the State of New York; 1849–82. Note: Reports 1856–57 wanting, Albany, 1850–83. 31v., 9 x 6, cf., cl.

NEW YORK—SURVEYOR-GENERAL. Report relative to the incorporated Canal and Railroad Companies. 1843. (See Cfh-37, p. 915.)

68 **NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1st–3d, 6th–7th; 1891–93, '96–97. Raleigh, 1892–98. 5 v., 10 x 6, cl.

4 **OHIO—COMMISSIONER OF RAILROADS AND TELEGRAPHS.** Annual report; 1867–84, '87–88. Columbus, 1868–89. 21 v., 10 x 6, cl.

39 ——Special report in answer to House Resolution No. 130. Columbus, 1881. 73 pp., 9 x 6, pap.

4 ——Special reports for the year 1884–85. no place, 1885. 221 pp., 10 x 6, cl.

5 **OHIO—(SENATE) SPECIAL COMMITTEE ON RAILROADS AND TELEGRAPHS.** Report, Feb. 1st, 1867. Columbus, 1867. 197 pp., 9 x 6, pap.

74 **OREGON—BOARD OF RAILROAD COMMISSIONERS.** Biennial report; 1st–2d; 1889–91. Salem, 1889–91. 2 v., 9 x 6, pap.

1 **PENNSYLVANIA—AUDITOR-GENERAL.** Reports of the several Railroad and Canal Companies; 1861–74. Note: 1868–74 includes reports of Canal and Telegraph Companies. For reports subsequent to 1874 see Annual Report of the Secretary of Internal Affairs, pt. 4. Reports, 1862–63, '71–73 wanting. Harrisburg, 1863–74. 9 v., 10 x 6, cl.

41 ——Tabulated results compiled from the Annual Reports of Railroads, Passenger Railways, Canal and Telegraph Companies, 1873–75. Note: For subsequent reports see Pennsylvania-Secretary of Internal Affairs. Harrisburg, 1874–76. 3 v., 9 x 6, pap.

37 **PENNSYLVANIA — AUDITOR-GENERAL AND STATE TREASURER.** Cost, revenue and expenditure of the Public Works of Pennsylvania to Nov. 30th, 1853. Harrisburg, 1854. 16 pp., 9 x 6, pap.

——Same; 1852. 16 pp., 9 x 6, b. p. Fg-6, p. 125.

34 **PENNSYLVANIA—JUDICIARY COMMITTEE.** Report of the sub-committee appointed by the Judiciary Committee (general) of the House of Representatives of 1872, in regard to Railroad Companies making incorrect returns. Harrisburg, 1873. 71 pp., 9 x 6, pap.

2 **PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; pt. 4, 1875; pt. 4, 1876; pt. 4, 1880; pts. 1–2, 1884; pts. 3–4, 1885. Note: Contains returns of Railroad, Canal and Telegraph Companies. Harrisburg, 1876–86. 7v., 10 x 6, cl.

40 ——Tabulated results compiled from the Annual Reports of Railroad, Passenger Railway, Canal and Telegraph Companies operated in the State of Pennsylvania; 1875. Note: For reports prior to 1875 see Pennsylvania-Auditor-General. Harrisburg, 1876. 1v., 9 x 6, pap.

51 **RHODE ISLAND—RAILROAD COMMISSIONER.** Annual report; made to the General Assembly; 1868, '73, '78–86, '89, '91, '93. Providence, 1868–94. 14 v., 9 x 6, pap.

52 ——Semi-annual report; made to the General Assembly; Jan., 1874—Jl., 1877. Note: Reports for Jl., 1874, Jl., 1875, Jl., 1876, Jl.. 1877, wanting. Providence, 1874–77. 4 v., 9 x 6, pap.

50 ——Report; made to the General Assembly at its May Session, 1867. Providence, 1867. 7 pp, 10 x 6, pap.

Ah—(*Continued*).

TENNESSEE—GOVERNOR. Special message to the General Assembly; with the report of the Commissioner of Roads, Jan. 29th, 1856. Nashville, 1856. 13 pp., 9 x 5, b. p. Af-8, p. 395.

19 **TEXAS—RAILROAD COMMISSION.** Annual report; 2d-8th; 1893-99. Note: 5th report wanting. Austin, 1893-1900. 5 v., 9 x 6, pap.

46 **VERMONT—BOARD OF RAILROAD COMMISSIONERS.** Biennial report; 1st; Dec., 1886—Je., 1888. Bost., 1888. 1 v., 10 x 6, pap.

VIRGINIA—COMMITTEE ON FRENCH'S EXPERIMENTAL RAILWAY. Report of the Committee to examine French's Experimental Ry.; made to the General Assembly. no place, 1851. 6 pp., 9 x 5, b. p. Ad-3, p. 761.

VIRGINIA—BOARD OF PUBLIC WORKS. Annual Report to the General Assembly of Virginia, with the accompanying documents; 34th. 1849. (See Cfg-1, v. 3, p. 478.)

17 **WISCONSIN—RAILROAD COMMISSIONER.** Annual report; 3d-7th; 1876-80. Note: 1879 wanting. Madison, 1876-81. 4 v., 9 x 6, cl.

71 ——Biennial report; 2d; 1885-86. Madison, 1887. 1 v., 9 x 6, pap.

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9 **ARGENTINE REPUBLIC—DEPARTAMENTO DE INGENIEROS CIVILES.** Memoria sobre ferrocarriles nacionales y estado de valores al 30 de Junio de 1888. Buenos Aires, 1888. 2 v., 10 x 7, pap.

84 **AUSTRIA—GENERAL-INSPECTION DER EISENBAHNEN.** Beiträge zur Beleuchtung der allgemeinen Verhältnisse der österreichischen Eisenbahnen, zusammengestellt im auftrage des Handelsministeriums auf Grund des für die Weltausstellung, 1878, in Paris, angefertigten Elaborates. Pt. 1. Wien, 1879. 1 v., 14 x 9, pap.

30 **BELGIUM—MINISTÈRE DES TRAVAUX PUBLICS.** Chemin de fer de l'état, postes, télégraphes marines: Compte rendu des opérations; 1868-74. Bruxelles, 1869-75. 2 v., 13 x 8, ¾ skiv.

2 **CANADA—DEPARTMENT OF RAILWAYS AND CANALS.** Annual report; 1881-98. Note: Report for 1896 wanting. Ottawa, 1881-99. 17 v., 10 x 6, pap.

3 ——Reports: Railway statistics of Canada, and capital, traffic and working expenditure of the railways of the Dominion; 1890-92. Ottawa, 1891-93. 13 v., maps, 10 x 6, pap.

4 **CANADA—ROYAL COMMISSION ON RAILWAYS.** Report; with appendices. Ottawa, 1888. 41 pp., 10 x 6, pap.

68 **CANADA—(SENATE) COMMITTEE ON ROUTES TO THE YUKON.** Report upon opening up direct communication between the railway system of Canada and the navigable waters of the Yukon. Ottawa, 1898. 134 pp., 10 x 7, pap.

CANADA—STANDING COMMITTEE ON RAILROADS AND TELEGRAPH LINES. Proceedings; together with the minutes of evidence. Toronto, Ont., 1851. 148+294 pp., tab., 9 x 6, b. p. Fg-6, p. 515.

33 **CAPE OF GOOD HOPE—GENERAL MANAGER OF RAILWAYS.** Report; 1892-93. Cape Town, 1893-94. 2 v., 13 x 8, pap.

21 **FRANCE—COMMISSION DE STATISTIQUE DES CHEMINS DE FER.** Documents statistiques sur les chemins de fer. Paris, 1856. 172+184 pp., 14 x 10, ¾ mor.

22 **FRANCE—DIRECTION GÉNERALE DES PONTS ET CHAUSSÉES ET DES CHEMINS DE FER.** Chemins de fer: Conditions techniques d'établissement. Paris, 1865. 38+187 pp., maps, 14 x 10, ¾ cf.

19 ——Chemins de fer de l'Europe: Resultats généraux de l'exploitation; 1862, 1863 et 1864. Paris, 1869. 6+115 pp., 14 x 10, ¾ cf.

20 ——Chemins de fer documents; 1866. Paris, 1869. 1 v., 14 x 10, ¾ cf.

16 ——Chemins de fer; documents financiers. Paris, 1868. 1 v. in 2. 14 x 10, ¾ cf.

17 **FRANCE—MINISTÈRE DES TRAVAUX PUBLICS.** Enquête sur les moyens d'assurer la régularité et la sûreté de l'exploitation sur les chemins de fer. Paris, 1858. 146+453 pp., 14 x 10, ¾ mor.

18 ——Enquête sur l'exploitation et la construction des chemins de fer. Paris, 1868. 140+346 pp., 14 x 10, ¾ mor.

15 **GERMANY—TECHNISCHES EISENBAHN BÜREAU.** Statistische Nachrichten von den preussischen Eisenbahnen; bearbeitet auf Anordnung des Herrn Ministers für Handel, Gewerbe und Offentliche Arbeiten; 1873-74. (v. 21-22.) Berlin, 1874-75. 2 v., 15 x 12, cl.

32 **GREAT BRITAIN—BOARD OF TRADE.** Circular of the 30th day of July, 1864, to the Railway Companies, on the subject of a means of communication between different parts of a railway train whilst in motion; correspondence between the Board of Trade and the Committee of the Railway Clearing House; and reports by the Committee and Capt. Tyler on the same subject. no place, 1865. 28 pp., 13 x 8, pap.

A1—(*Continued*).

51 ——General report in regard to the share and loan capital, traffic in passengers and goods, and the working expenditure and net profits from railway working of the Railway, Companies of the United Kingdom, for the year 1894. Lond., 1895. 1 v., 13 x 8, pap.

23 ——Railway returns for England and Wales, Scotland and Ireland; with summary tables for United Kingdom; 1883-84, '86, '94-97. Lond., 1884-98. 7 v., 13 x 8, pap.

31 ——Railway returns of England and Wales, Scotland and Ireland, relative to the accidents, traffic, and expenditures of the several Railway Companies for the year 1865. no place, 1866. 1 v., 13 x 8, pap. no title-page.

45 ——Railways: Returns relating to capital and loans, lengths of lines opened and in course of construction, and to the expiration of powers for compulsory purchase of land. Lond., 1858. 42 pp., 13 x 9, pap. no title-page.

58 ——Report of Proceedings under Section 31 of the Railway and Canal Traffic Act, 1888, including Proceedings upon complaints made under Section 1 of the Railway and Canal Traffic Act, 1894; 5th; 1897. Lond., 1897. 1 v., 13 x 8, pap.

48 ——Report of the Committee appointed to consider the question of wind pressure on railway structures. Lond., 1881. 17 + 12 pp., 13 x 8, pap.

67 ——Report upon the Railway and Canal Bills, and Bills relating to harbours, docks, and tidal waters; of Session, 1865. no place, 1865. 31 pp., map, 14 x 9, pap.

58 ——Return, by the Railway Companies in the United Kingdom, relative to signal arrangements and systems of working; 1893-95. Lond., 1894-96. 3 v., 13 x 8, pap.

52 ——Return by the Railway Companies of the United Kingdom, on continuous brakes; 1890-98. Note: Returns are published semi-annually. Returns for six months ending Dec., '90, Dec., '91, June, '92, Dec., '92; June, '93, Dec., '93, and June, '98, wanting. Lond., 1890-99. 10 v., 13 x 8, pap.

44 ——Return showing number of passengers conveyed on all railways in England and Wales, Scotland, and Ireland, respectively, during the half-year ended the 31st Dec. . . . .; together with a summary, comparing the traffic with that during the corresponding period in the past year; 1856-58. Lond., 1857-59. 3 v., 13 x 8, pap.

25 **GREAT BRITAIN—COMMISSIONERS OF RAILWAY STRUCTURES.** Report of the Commissioners appointed to inquire into the application of iron to railway structures. Lond., 1849. 2 v. in 1, il., pl., map, 13 x 8, ½ skiv.

46 **GREAT BRITAIN—COMMISSIONERS OF RAILWAYS.** Report; 1846-50. Note: For subsequent reports, see Great Britain-Railway Department. Lond., 1848-51. 4 v. in 2, il., pl., map, 13 x 8, ½ sh.

27 ——Report respecting railway communication between London and Birmingham; together with an appendix. no place, 1848. 98 pp., 37 pl., map, 13 x 9, ¾ skiv.

46 ——Return of the passenger and goods traffic on each railway in Great Britain and Ireland, 1846-47. Lond., 1848. 1 v., 13 x 8, b. p.

26 **GREAT BRITAIN—GAUGE COMMISSIONERS.** Report presented to both houses of Parliament by command of Her Majesty. v. 1, Minutes of evidence taken before the Commission. v. 2, Report, Appendix. Lond., 1846. 2 v., 27 + 818 pp., 13 x 9, ¾ skiv.

49 **GREAT BRITAIN—JOINT SELECT COMMITTEE ON THE RAILWAY RATES AND CHARGES PROVISIONAL ORDER BILLS** Report; together with proceedings of the Committee, minutes of evidence and index. Lond., 1891. 2 v., 13 x 8, pap.

54 **GREAT BRITAIN—PARLIAMENT.** Report, from the Joint Select Committee of the House of Lords and the House of Commons, on the Channel Tunnel; together with the proceedings of the Committee, minutes of evidence and appendix. Lond., 1883. 47 + 574 pp., pl., 13 x 8, pap.

GREAT BRITAIN—RAILWAY COMMITTEE. Copy of report of the Committee appointed by the Lords of the Treasury relative to railway communication between London, Dublin, Edinburgh and Glasgow; 4th. no place, 1841. 68 pp., map, 13 x 8, b. p. Af-223, p. 189.

41 **GREAT BRITAIN—RAILWAY DEPARTMENT.** General report to the Board of Trade upon the accidents that have occurred on the railways of the United Kingdom during the year; 1870, '91. Lond., 1871-95. 2 v., 13 x 8, pap.

29 ——Report of the inspecting officers to the Lords of the Committee of Privy Council for Trade upon certain accidents which have occurred on railways; 1855-1857, pt. 2, pt. 4; 1858, pts. 1-5; 1859, pts. 1-3. Lond., 1855-59. 4 v. in 11, 13 x 8, pap.

78 ——Report of the officers to the Board of Trade; 1842. Lond., 1843. 1 v., il., pl., maps, 13 x 8, b. p.

13 ——Report to the Lords of the Committee of Privy Council for Trade and Foreign Plantations, of the Proceedings of the Department; 1854-57. Note: For prior reports see Great Britain-Commissioners of Railways. Lond., 1855-58. 4 v., 13 x 9, pap.

A1—(*Continued*).

28 ——Report to the Lords of the Committee of Privy Council for Trade and Foreign Plantations, of the Proceedings of the Department relative to railways; 1856. Lond., 1857. 113 pp., 13 x 8, b. p.

10 ——Report to the Lords of the Committee of Privy Council for Trade, upon the accidents which have occurred on railways; 1855-58. Lond., 1856-59. 4 v., 13 x 8, pap.

38 ——Reports of the Inspecting Officers, to the Lords of the Committee of Privy Council for Trade, upon four accidents which occurred on the Southeastern Ry., 1855. Lond., 1856. pp. 167-244, map, 13 x 9, pap.

40 ——Returns of accidents and casualties, as reported to the Board of Trade by the several railway companies in the United Kingdom, during the year ending Dec. 31st; together with reports of the Inspecting Officers of the Railway Department, upon certain accidents which were inquired into; 1894, '94-98. Lond., 1895-99. 5 v., 13 x 8, pap.

37 ——Return of the number and nature of the accidents and the injuries to life and limb which have occurred on all the railways open for traffic in England and Wales, Scotland and Ireland, respectively, from the 1st of July to the 31st of Dec.; 1855-56. Lond., 1856-57. 2 v., 13 x 9, pap.

42 ——Returns of accidents and casualties as reported to the Board of Trade by the several railway companies in the United Kingdom, during the six months ending 30th June; together with reports of the Inspecting Officers of the Railway Department to the Board of Trade upon certain accidents which were inquired into; 1895-96. Lond., 1895-96. 2 v., 13 x 8, pap.

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43 ——Rapid transit: An address on the subject of loss in population and loss in value of real estate in New York City and Westchester County, arising from the want of accommodation for trade and travel between the limits of Manhattan Island. H. C. Gardiner. Note: Favors Arcade Underground Ry. N. Y., 1870. 8 + 5 pp., il., 10 x 7, b. p.

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15 **HAUSSKNECHT, G. S.** Prospectus for rapid transit for cities and country. Brooklyn, no date. 1 p., 14 x 8, pap.

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38 **SMITH, J. B.** Treatise upon cable or rope traction as applied to the workings of street and other railways. Lond., 1887. 194 pp., il., pl., map, 10 x 8, cl.

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7 **VIELE, E. L.** Letter on Robert A. Chesebrough's system of locomotion for elevated railroads; patented July 14th, 1868. N. Y., 1868. 22 pp., pl., 9 x 6, pap.

33 **WILLIAMS, C.** Williams' rapid transit viaduct, or, suspended track-way for rapid transit railways: The solution of the problem of rapid transit for New York and other cities. A new adaptation of the suspension principle, which is rigid and self anchoring, and avoids the necessity of the massive towers and the fixed and expensive ground anchorage of suspension bridges, as now constructed. N. Y., 1873. 29 pp., 11 pl., 11 x 7, cl.

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55 **MANHATTAN ELEVATED R. R.** Specifications for the building of foundation piers. no place, 1881. unpaged, 14 x 8, pap. no title-page. manuscript.

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36 ——Typical crossing used on Second Avenue line, M. E. R. R. pl., 10 x 15, pap. no title-page.

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12 ——Report of the Commissioner of Public Works on the subject of rapid transit, transmitted by the Mayor to the Board of Aldermen. Allan Campbell. N. Y., 1877. 24 pp., 9 x 6, pap.

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48 ——Specifications for the construction of an elevated railway. New York-Rapid Transit Commissioners. N. Y., 1875. various pagings, 14 x 9, pap. no title-page.

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39 ——Report, submitted to the President and Directors of the N. Y. E. R. R. Co., giving estimates in detail of the cost of different portions of the work. Milton Courtright. N. Y., 1877. 4 pp., 14 x 8, b. p. no title-page.

39 ——Specifications for the construction of the railroad from the intersection of Whitehall with Front Street to, or near, the intersection of the Bowery with Third Avenue. N. Y., 1877. 6 pp., 14 x 8, b. p.

39 ——Specifications for track laying. 8 pp., 12 x 8, b. p. no title-page.

39 ——Specifications for work and materials (excepting castings and foundation bolts) required in the construction of about 250 foundations for the columns of the N. Y. E. R. R. on 3d Ave., between 61st Street and 81st Street. N. Y., 1878. 8 pp., 12 x 8, b. p.

34 **NEW YORK, FORDHAM & BRONX RY.** Specifications for an elevated railroad running from the Harlem River to the southerly line of the St. John's College lands at Fordham. New York-Board of Rapid Transit Commissioners. 11 pp., 9 x 6, pap. no title-page.

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32 **PHILADELPHIA.** Design for an elevated railroad in Philadelphia. sheet, 15 x 45, blue print. no title-page.

22 **SUBURBAN RAPID TRANSIT CO.** Contract for construction of column foundations north of the Harlem River. no place, 1884. 12 pp., 10 x 7, pap.

35 ——Contract for construction of passenger stations and stairways of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1887. 31 pp., 10 x 7, pap.

24 ——Contract for construction of the piers and foundations of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. 19 pp., 10 x 7, pap.

25 ——Contract for the construction of the iron structures of the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. 14 pp., 10 x 7, pap.

26 ——Specifications for cast-iron bases and wheel-guards for the Third Avenue line of the S. R. T. Co. New Jersey Ry. Construction Co. no place, 1886. unpaged, 10 x 7, pap.

64 ——Structure between Harlem River and Southern Boulevard, column foundation on made ground. no place, 1883. pl., 22 x 18, pap. no title-page.

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7 ——Traction à vapeur sans feu, système Francq et Lamm. Dunkerque, 1896. pl., 15 x 22, pap.

28 ——Traction; locomotives à vapeur système funiculaire, moteurs électriques, machines à air comprimé, locomotives à vapeur sans foyer. Léon Francq. Paris, 1883. 24 pp., 9 x 6, pap.

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16 **AMORETTI, P.** Rapport sur la question des traversées de voies; établissement; exploitation. (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 6 pp., 13 x 8, pap.

20 **BAILLOT, R.** Rapport sur la question suivante: "Quelle est la composition normale de la ration de vos chevaux?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 5 pp., 13 x 8, pap.

11 **BOLLER, A. P., and others.** Elevated roads: Report of able experts on their strength and safety. Note: *New York Mail and Express*, Mar. 21st, 1885, Supplement No. 2. N. Y., 1885. sheet, 27 x 20, pap.

12 **BRYSON, ANDREW, Jr.** Return of power in electric and cable traction. N. Y., 1889. 18 pp., tab., 9 x 6, pap.

2 **CHESEBROUGH, R. A.** System of locomotion for elevated railways; patented July 14th, 1868. N. Y., 1871. 23 pp., pl., 9 x 6, pap.

8 **COHEN, MENDES.** Report on car-fenders suitable for use on street railways; made to a Commission in relation to car-fenders for street cars, in the City of Baltimore. Balt., 1894. 20 pp., 9 x 6, pap.

31 **DAVIS, C. H., and W. G. HOWELLS.** Third-rail electric traction. N. Y., 1898. 17 pp., 121 pl., 10 x 7, pap.

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15 **DRAEGER, R.** Rapport sur la question suivante: "Avez-vous fait l'essai de la ferrure à cordes?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 3 pp., 13 x 8, pap.

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22 **FISCHER-DICK, JOSEPH.** Rapport sur la question suivante: "Décrivez, avec plans ou croquis à l'appui, les systèmes de voies métalliques que vous avez expérimentés en indiquant la durée de votre expérience." (Union Internationale Permanente de Tramways. Huitiéme Assemblée Générale. 1894.) no place, no date. 4 pp., 13 x 8, pap.

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24 ——Sur la traction mécanique dans Paris. Paris, 1897. 14 pp., 11 x 7, pap.

5 ——Traction mécanique des tramways. (Association Française pour l'Avancement des Sciences. Congrés de Bordeaux. 1895.) Paris, 1895. 10 pp., 9 x 6, pap.

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19 **HAMELINK, S.** Rapport sur la question suivante: "Avez-vous fait des expériences de chauffage de vos voitures et quels en ont été les résultats?" (Union Internationale Permanente de Tramways. Huitième Assemblée Générale. 1894.) no place, no date. 4 pp., 13 x 8, pap.

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9 **LAVOINNE, E.** Notice sur les principaux systèmes de locomotives sans feu. Paris, no date. pp. 261-309, pl., 9 x 6, pap. no title-page.

6 **MARÉCHAL, HENRI.** Tramways électriques. Paris, 1895. 39 pp., il., 9 x 6, pap.

26 **MARCUTTI, CARLO.** Étude pour l'application de la vapeur surchauffée et emmagasinée à la propulsion des voitures automotrices de tramways. Milano, no date. 4 pp., il., 14 x 10, pap.

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34 ——Protection of alluvial lands and the improvement of the Mississippi River: Address before the New Orleans Cotton Exchange, Feb. 15th, 1878. J. B. Eads. 1 p., 15 x 8, pap. no title-page.

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45 ——Report of the Committee upon the Lower San Juan River, and the Harbor of San Juan del Norte, or Greytown, Nicaragua. National Academy of Sciences. no place, 1866. 16 pp., map, 9 x 6, pap. no title-page.

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208 **HOLYHEAD HARBOR.** First report to the Committee appointed by the Lords of the Treasury, and report from Rear-Admiral *Sir* J. A. Gordon and Captain Beechey to the Lords of the Admiralty, relative to the best means of communicating between London and Dublin and the relative capabilities of the Ports of Holyhead, Orme's Bay and Portdynllaen. no place, 1840. 50 pp., pl., maps, 13 x 8, b. p.

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89 ——Report upon the expediency of improving the entrance to the harbor at Key West, Fla. U. S.-Corps of Engineers. (51st Cong., 1st Sess. House ex. doc. No. 39.) Wash., 1890. 26 pp., 10 pl., 9 x 6, pap.

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204 **KINGSTOWN HARBOR, ENG.** Return to an order of the House of Commons for copy of memorials from the inhabitants of Kingstown to the Treasury, relating to encroachments on the Harbour of Kingstown, by the Dublin and Kingstown Harbour Railway Company; copy of Treasury minutes and correspondence with Board of Works, relative to Kingstown Harbour and the Atmospheric Railway, etc. no place, 1844. 46 pp., pl., map, 13 x 8, b. p. no title-page.

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417 **LEIXÕES HARBOR.** Brief account of the building of Leixões Harbor. A. J. N. Soares. Lisbon, 1898. 10 pp., 10 x 6, pap.

126 ——Photographias das obras em construcção do Porto de Leixões. no place, no date. pl., 15 x 20, cl.

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393 **LUDINGTON HARBOR.** Specifications, etc., for Repairing Government Piers at Ludington, Mich. U S.-Corps of Engineers. Grand Rapids, 1899. 5 pp., 14 x 8, pap. no title-page.

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337 **MANCHESTER HARBOR.** Specifications, etc., for dredging in Manchester Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.

396 **MANISTEE HARBOR.** Specifications, etc., for extension and repair of pier at Manistee, Mich. U. S.-Corps of Engineers. Grand Rapids, 1900. 10 pp., 14 x 8, pap.

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313 ——Specifications, etc., for furnishing natural cement, Portland cement, broken stone, sand, timber, rubber boots, iron and hardware supplies for concrete superstructure to breakwater at Marquette, Mich. U. S.-Corps of Engineers. Duluth, 1899. 12 pp., 14 x 8, pap.

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4 ——Annual report of the Harbor and Land Commissioners; 1879-99. Bost., 1880-1900. 19 v., 9 x 6, pap., cl.

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208 ——Specifications, etc., for improving harbor at Michigan City, Ind. U. S.-Corps of Engineers. Chic., 1875. 9 pp., 10 x 8, pap.

348 ——Specifications, etc., for removal of part of the wreck of the Steamer *Horace A. Tuttle*. U. S.-Corps of Engineers. Grand Rapids, 1899. 6 pp., 14 x 8, pap. no title-page.

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237 **MILFORD HAVEN.** Specifications, etc., for dredging at Milford Haven, Va. U. S.-Corps of Engineers. Wash., 1899-1900. 2 v., 14 x 8, pap. no title-page.

284 **MILWAUKEE HARBOR.** Specifications, etc., for construction of breakwater, improving harbor of refuge, at Milwaukee, Wis. U S.-Corps of Engineers. Milwaukee, 1899. 6 pp., 14 x 8, pap. no title-page.

230 ——Specifications, etc., for dredging for improving harbor at Milwaukee, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 3 pp., 14 x 8, pap. no title-page.

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102 ——Specifications, etc., for constructing sea wall at Fort Morgan, Mobile Point, Ala. U. S.-Corps of Engineers. no place, 1899. unpaged, 14 x 8, pap. no title-page.

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344 ——Specifications, etc., for dredging in Mobile Bay, Ala. U. S.-Corps of Engineers, Mobile, 1899. unpaged, 14 x 8, pap. no title-page.

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6 ——Annual report of the Harbour Engineer; 1860, '62. Note: Report for 1860 contains report on the extension and improvement of the Harbor of Montreal, by Robert Forsyth. Montreal. 1861-63. 2 v., 9 x 6. pap.

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11 ——Documents relating to the deepening of the ship channel through Lake St. Peter, etc. Montreal, 1858. 13 pp., 10 x 6, pap.

68 ——Editorials upon the plans proposed by John C. Trautwine and John Young for the improvement of Montreal Harbour and the increase of Montreal trade, Nov. 20th-23d, 1858. *Montreal Gazette.* Montreal, 1858. newspaper slips, 9 x 6, b. p. no title-page.

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68 ——Plan of part of the City of Montreal showing as regards its present harbor, the existing piers, the improvements suggested by the Harbour Commissioners and those recommended by John C. Trautwine. Montreal, 1858 (?) map, 29 x 84, b. p.

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74 ——Report on the improvement of the Harbour of Montreal, and on the trade and navigation of the St. Lawrence. John Childe and others. no place, 1857. 16 pp., 11 x 9, pap. no title-page.

17 ——Report on the St. Lawrence Bridge and Manufacturing Scheme, 13th Dec., 1882. John Kennedy. Note: Report upon the feasibility of the scheme and its probable effect upon the harbour if carried out. Montreal, 1882. 12 pp., 13 x 8, pap.

10 ——Reports in relation to the affairs of the Harbour Commissioners and the deepening of the ship channel in Lake St. Peter and the River St. Lawrence. Montreal, 1855. various pagings, maps, 9 x 5, pap.

20 ——Reports of the Harbour Commissioners in relation to improvements in the Harbour and deepening the ship channel between Montreal and Quebec; also the report of the Harbour Master for the year 1875. Montreal, 1876. 29 pp., 9 x 6, pap.

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319 **MOOSEABEC CHANNEL.** Specifications, etc., for ledge excavation at Mooseabec Bar, Sullivan Falls, Me. U. S.-Corps of Engineers. Portland, 1899. 7 pp., 13 x 8, pap. no title-page.

378 **MUSKEGON HARBOR.** Specifications, etc., for pier extension at Muskegon, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 8 pp.. 14 x 8, pap. no title-page.

126 ——Specifications, etc., for repairing Government Pier at Muskegon, Mich., 1898-99. U. S.-Corps of Engineers. Grand Rapids, 1898-99. 2 v., 14 x 8, pap. no title-page.

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334 ——Specifications, etc., for jetty construction at Nantucket, Mass. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.

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161 **NEW YORK HARBOR.** Account of the steamboat controversy between citizens of New York and citizens of New Jersey, from 1811 to 1824, originating in the asserted claim of New York to the exclusive jurisdiction over all the waters between the two states. J. D. Ward. Newark, 1863. 19 pp., 9 x 6, pap.

176 ——Accounts in the New York daily papers of the blowing up of Flood Rock in Hell Gate. N. Y., 1885. newspaper slips.

52 ——Action of the Commissioners governing the Department of Docks, on the construction of the river wall designed by the Engineer-in-Chief, George S. Greene, Jr., and progress of erection on the water-front since 1876; and report thereon by John Newton, Q. A. Gillmore and William E. Worthen. N. Y., 1881. 14 pp., 9 x 6, pap.

71 ——Address to the members of the New York Produce Exchange, Thursday, Oct. 24th, 1878, "On the practicability of permanently maintaining several feet increased depth over the Sandy Hook Bar, and otherwise improving the Channel." H. F. Knapp. no place, 1878. 14 pp., 9 x 6, pap.

890 ——Annual report of the Department of Docks for the year ending Apr. 30th; 6th-10th, 12th, 14th-18th, 22d-25th; 1876-80, '82, '84-88, '92-95. Note: Reports 1885-88, '92-95 contain minutes of the Board. For 1st annual report see On25-5.1, Message of the Mayor for 1871. N. Y., 1876-95. 15 v., pl., maps, 9 x 6, cl.

48 ——Annual report upon the improvement of rivers and harbors in the States of New York (including the removal of obstructions at Hell Gate) and New Jersey. John Newton. Note: Appendix Y of the Annual report of the Chief of Engineers for 1875. Wash., 1875. 49 pp., maps, 9 x 6, pap.

——Same, 1874. 80 pp., 9 x 6, b. p. Note: Appendix W of the Annual report of the Chief of Engineers. Cfi-2, p. 913.

40 ——Argument before the Committee of Commerce, House of Representatives, on the report of the Board of Engineers, to whom was referred a bill to provide for the "Deepening of Sandy Hook Bar of the Port of New York." H. F. Knapp. N. Y., 1881. 8 pp., 9 x 6, pap.

194 ——Argument, before the Senate Committee on Privileges and Elections, May 10th, 1886, on the resolution to inquire as to article written by George F. Spinney, for *New York Times* of April 15, 1886, on Senator Raines; charging an effort to steal the Staten Island water front for the Baltimore & Ohio R. R. Co. N. C. Moak. no place, 1886. 32 + 1 pp., 9 x 6, pap. no title-page.

64 ——Argument, submitted to the Committee of Commerce, U. S. Senate, in favor of a "Bill to create a permanently deep, wide and straight channel through the Sandy Hook Bar of the Port of New York for the purpose of forming an improved commercial outlet." H. F. Knapp. (46th Cong., 2d Sess.) unpaged, 9 x 6, pap. no title-page.

——Blasting of rocks under water without drilling. B. Maillefert and W. Raasloff. Note: Relative to operations at Hell Gate. no place, 1852. 9 pp., pl., 9 x 6, b. p. no title-page. Nd-1, p. 695.

Cc—(*Continued*).

41 ——Communication from the Governor, transmitting the report of the Commissioners, appointed under the Act, Chap. 239, Laws of 1863, relative to protecting the harbors and frontiers against invasion, and to provide for their defence. (Assembly, No. 82. 1864.) Albany, 1864. 50 pp., pl., 9 x 6, pap.

——Currents of New York Bay and Harbor. B. A. Colonna. 1888. (See Yl-42, No. 8, p 41.)

26 ——Facts relating to the Department of Docks of the City of New York, and reasons for its continuance as a separate department of the city government. E. T. Lynch. N. Y., 1877. 12 pp., 9 x 6, pap.

110 ——Harbor of New York. Note: Extracts from the *Scientific American*, July 10th, 1886. Extract from the *New York Times*. Aug. 11th, 1886. Extracts from the *New York Star*, Feb. 10th, 1886. N. Y., 1887. 17 pp., map, 9 x 6, pap.

24 ——Harbor of New York: Its condition, May, 1873; letter of the Superintendent of the U. S. Coast Survey to the Chamber of Commerce of New York; with the report of Henry Mitchell on the physical survey of the harbor. Benjamin Peirce. N. Y., 1873. 38 pp., pl., 9 x 6, pap.

——Hell Gate and its approaches. U. S.-Coast Survey. 1851. (See Qf-206.)

22 ——Letter to the Chamber of Commerce relative to the water-front of the City of New York. Simon Stevens. N. Y., 1885. 18 pp., 9 x 6, pap. no title-page.

23 ——Letter to the Comptroller on plan of bulk-heads and docks for the City of New York. A. W. W. Evans. N. Y., 1881. 25 pp., map, 9 x 6, pap.

——Map showing the high- and low-water mark and the original city grants of lands under water, made to various parties from 1686 to 1873, extending from Battery to Fifty-first Street, Hudson and East Rivers, New York City; also several pier and bulk-head lines established from 1730 to 1873; comp. by Charles K. Graham, Engineer-in-Chief of the Department of Docks. 1873. (See Qf-48.)

389 ——Minutes of the Board; May, 1870 Apr., 1877. Department of Docks. Note: For Minutes of the Board subsequent to 1877, see Annual reports of the Department. Cc-390. N. Y., 1868. 6 v. in 3, 9 x 6, cl.

——New York entrance. U. S.-Coast Survey. 1867. (See Qf-207.)

25 ——New York Harbor: Report. H. C. Taylor. N. Y., 1884. 7 pp., 9 x 6, pap.

419 ——Outline of operations for the removal of the reef at Hallett's Point, Hell Gate, N. Y., and description of steam drilling scow; Brevet Major-General John Newton in charge. U. S.-Corps of Engineers. no place, 1876. unpaged, 9 x 6, pap.

31 ——Plan of permanent improvement of the water front on the East River from Grand to Thirty-fourth Street, proposed by the Commissioners. Department of Docks. N. Y., 1883. 58 pp., map, 9 x 6, cl.

394 ——Preliminary project; the future of New York through the system of submarine building invented by J. Wenmaeker; view of the future quays and docks; with plates illustrating the method of excavation. Jerome Wenmaeker. no place, no date. 9 sheets, 13 x 15, pap.

——Proceedings in relation to the removal of obstructions to the navigation at Hell Gate in the East River; accompanied by a letter from the Superintendent of the Coast Survey transmitting a chart of Hell Gate, with a report from C. H. Davis. New York Chamber of Commerce. (30th Cong., 1st Sess. House mis. doc. No. 58.) no place, 1848. 5 pp., 9 x 6, pap. Af-3, p. 81.

53 ——Protest from the late Engineer-in-Chief of the Department of Docks, New York City, against needless expenditure of public money for the alleged necessary strengthening of the "Béton en masse" walls of the North River Front. C. K. Graham. N. Y., 1876. 15 pp., 9 x 6, pap.

43 ——Report in relation to establishing water lines for part of the Harbor of New York. Committee on Commerce and Navigation. (Senate, No. 85.) no place, 1856. 8 pp., map, 9 x 6, pap.

136 ——Report of Commissioners appointed to ascertain the rights of the State and of riparian owners to the lands lying under water. New Jersey-Legislature. Jersey City, 1865. 74 pp., 9 x 6, pap.

126 ——Report of Sub-Committee on improvement of the water front. New York City Committee of Seventy. no place, 1895. 15 pp., 8 x 6, pap.

158 ——Report of the Board of Consulting Engineers, upon the improvement of the New York water front. Department of Docks. N. Y., 1896. 12 pp., 14 x 8, pap. no title-page.

30 ——Report of the Commission appointed to devise a plan for defending the Harbor of New York. O. W. Childs and others. Note: Commission appointed by the Governor of New York. Albany, 1862. 23 pp., 9 x 6, pap.

32 ——Report of the Commissioners of the Land Office, relative to New York Harbor encroachments; transmitted to the Senate, Jan. 9th, 1862. Note: Survey of the reclaimed lands along the Hudson and East Rivers. Albany, 1869. 21 + 80 pp., map, facsim., 9 x 6, pap.

127 ——Report of the Commissioners on the extent and value of lands under water, in the County of Hudson. New Jersey-Legislature. Trenton, 1849. 46 pp., 9 x 6, pap.

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42 ——Report of the Commissioners, relative to encroachments and preservation of the Harbor of New York. (Senate, No. 8.) Albany, 1856. 168 + 1 pp., 9 x 6, pap.

88 ——Report of the Committee on Terminal Facilities; together with facts and statistics touching the harbor commerce and trade facilities of the Port and City of New York; by the Assistant Secretary of the Association. New York Cheap Transportation Association. N. Y., 1874. 46 pp., 9 x 6, pap.

——Report of the Committee on Wharves relative to the erection of a great pier in the North River, 1836. (Doc. No. 80.) N. Y., no date. pp. 421-513, 5 maps, 9 x 5, b. p. Ac-139, p. 1.

29 ——Report of the Engineer-in-Chief of the Department of Docks for the year 1875. N. Y., 1875. 1 v., 9 x 6, pap.

63 ——Report on the tides and currents of Hell Gate, one of the entrances to New York Harbor; made to the Superintendent of the Coast Survey. Henry Mitchell. Wash., 1869. 14 pp., pl., 12 x 9, pap.

30 ——Reports to the Commissioners of Docks on the bulkhead walls at Canal and King Streets, North River. John Newton and others. N. Y., 1876. 72 pp., pl., phot., 9 x 6, pap.

28 ——Resolutions in relation to encroachments made in the Harbor of New York. New Jersey-Legislature. (New York Assembly, No. 104.) Albany, 1855. 8 pp., 9 x 6, pap.

27 ——Review of the reports made to certain commercial bodies. Department of Docks. Note: Review and refutation of reports of William H. Webb and others on the management of the Department of Docks. N. Y., 1877. 16 pp., 9 x 6, pap.

——Showing the progressive changes in Sandy Hook from 1779 to 1851. U. S.-Coast Survey. 1851. (See Qf-192.)

415 ——Specifications, etc., for building pier (new number) 38 N. R. Department of Docks. no place, 1877. 17 pp., 14 x 8, pap. no title-page.

416 ——Specifications, etc., for building wooden pier at foot of Morton Street, to be known as New Pier 42, N. R. Department of Docks. no place, 1875. 20 pp., 14 x 8, pap. no title-page.

312 ——Specifications, etc., for dredging East Channel at the entrance to New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 9 pp., 14 x 8, pap. no title-page.

286 ——Specifications, etc., for dredging in Bay Ridge and Red Hook Channels, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 9 pp., 14 x 8, pap. no title-page.

292 ——Specifications, etc., for dredging in Gowanus Creek Channel, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 9, pap. no title-page.

289 ——Specifications, etc., for dredging in Wallabout Channel, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 9, pap. no title-page.

250 ——Specifications, etc., for excavation and removal of Man-o'-War Rock, East River, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.

414 ——Specifications, etc., for furnishing granite stones for bulkhead or river wall, Department of Docks. no place, 1878. 14 pp., 14 x 8, pap. no title-page.

234 ——Specifications, etc., for removal of wreck *David Crockett*, New York Harbor. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.

——Speech on the subject of the rights of riparian owners, delivered before the House of Assembly, State of New Jersey, Apr. 4th, 1866, on the consideration of an act to incorporate "The Hudson River Wet Basin Warehouse Co." D. C. Morris. 1866. (See Ca-61.)

——Tidal levels and flow of currents in New York Bay and Harbor. H. L. Marindin. 1888. (See Yl-42, v. 1, p. 7.)

435 ——Les travaux de Hell Gate. (John Newton.) Louvain. no date. 20 pp., 10 x 6, pap.

90 NEW YORK STATE. Annual report upon the improvement of harbors on Lake Ontario east of Oak Orchard, N. Y. U. S.-Corps of Engineers. Wash., 1893. 1 v., 9 x 6, pap.

57 NEWARK BAY. Chart of Newark Bay. T. R. Gedney. (25th Cong., 3d Sess. House doc. No. 182.) Wash., 1839. 4 pp., map, 9 x 6, pap.

296 NEWBURYPORT HARBOR. Specifications, etc., for the delivery of rubble-stone in the jetties at Newburyport Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.

204 NEWHAVEN HARBOR. Return to an order of the House of Commons for a copy of Captain Washington's last report on the harbor at Newhaven. no place, 1847. 6 pp., map, 13 x 8, b. p. no title-page.

328 NEWPORT HARBOR. Specifications, etc., for dredging Newport Harbor, R. I. U. S.-Corps of Engineers. Newport, 1899. 6 pp., 13 x 8, pap. no title-page.

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109 **NORFOLK HARBOR.** Report in relation to the cost of the proposed improvement of the harbor at Norfolk, Va. S. T. Abert. (45th Cong., 2d Sess. Senate ex. doc. No. 88.) Wash., 1878. 5 pp., map, 9 x 6, pap. no title-page.

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262 ——Specifications, etc., for dredging and bank protection in waterway, from Norfolk, Va., to the sounds of North Carolina. U. S.-Corps of Engineers. Norfolk, 1899. 9 pp., 14 x 8, pap. no title-page.

305 **NORTH POINT HARBOR.** Specifications, etc., for constructing sea walls and embankments at North and Hawkins Points, Md. U. S.-Corps of Engineers. Balt., 1898. 11 pp., 14 x 8, pap. no title-page.

228 **NORWALK HARBOR.** Specifications, etc., for dredging in Norwalk Harbor, Conn. U. S.-Corps of Engineers. New London, 1899. 6 pp., 14 x 8, pap. no title-page.

377 **OAKLAND HARBOR.** Specifications, etc., for diverting channel for Sausal Creek, Oakland Harbor, Cal. U. S.-Corps of Engineers. San Fran., 1899. 10 pp., 14 x 8, pap. no title-page.

180 ——Specifications, etc., for dredging at Oakland Harbor, Cal. 1898. U. S.-Corps of Engineers. San Fran., 1898. 6 pp., 14 x 8, pap. no title-page.

226 **OCONTO HARBOR.** Specifications, etc., for dredging for improving harbor at Oconto, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 4 pp., 14 x 8, pap. no title-page.

327 **OGDENSBURG HARBOR.** Specifications, etc., for dredging in Ogdensburg Harbor, N. Y. U. S.-Corps of Engineers. Oswego, 1899. 7 pp., 14 x 8, pap. no title-page.

98 **OHIO.** Annual report upon the improvement of rivers and harbors on Lake Erie, west of Erie, Pa. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1896-98. 3 v., pl., 9 x 6, pap.

18 **OLYMPIA HARBOR.** Specifications, etc., for dredging Olympia Harbor, Wash U. S.-Corps of Engineers. no place, 1899. 7 pp., 14 x 8, pap. no title-page.

ONTONAGON HARBOR, MICH. Preliminary chart of Ontonagon Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1859. (See Qf-142.)

99 **OREGON.** Annual report upon the improvement of certain rivers and harbors in Oregon and Washington. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1891. 1 v., 9 x 6, pap.

208 **ORME'S BAY.** First report to the Committee appointed by the Lords of the Treasury, and report from Rear-Admiral *Sir* J. A. Gordon and Captain Beechey to the Lords of the Admiralty, relative to the best means of communicating between London and Dublin, and the relative capabilities of the Ports of Holyhead, Orme's Bay and Portdynllaen. no place, 1840. 50 pp., pl., maps, 13 x 8, b. p.

OYSTER BAY. Oyster or Syosset Bay, L. I. U. S.-Coast Survey. 1847. (See Qf-179.)

72 **PANAMA HARBOR.** Port de Panama: Table des marées pour l'année 1885. L. von Göriz. Panama, 1885. unpaged, 7 x 5, pap.

433 **PARIS HARBOR.** Résumé d'une étude sur la création d'un port de mer à Paris. Bouquet de la Grye. Paris, 1882. 27 pp., pl., 11 x 9, pap.

304 **PASCAGOULA HARBOR.** Specifications, etc., for removing wreck of schooner *Robert H. Rathburn*, lying in Pascagoula Harbor, Miss. U. S.-Corps of Engineers. Mobile, 1898. 2 pp., 14 x 9. pap. no title-page.

282 **PEEKSKILL HARBOR.** Specifications, etc., for dredging in Peekskill Harbor, N. Y. U. S.-Corps of Engineers. N. Y., 1899. 6 pp., 14 x 8, pap. no title-page.

191 **PENSACOLA HARBOR.** Improving harbor at Pensacola, Fla.; specifications, etc., for dredging; 1897-98. U. S.-Corps of Engineers. Montgomery, 1897-98. 2 v., 14 x 8, pap. no title-page.

205 ——Specifications, etc., for building a wooden hull, sea going, hydraulic dredge for harbor at Pensacola, Fla. Montgomery, 1898. 2 v., 8 pl., 12 x 9, pap.

196 **PENTWATER HARBOR.** Specifications, etc., for repairing Government Pier at Pentwater, Mich.: 1898-99. U. S.-Corps of Engineers. Grand Rapids, 1898-99. 2 v., 14 by 8, pap. no title-page.

204 **PETERHEAD HARBORS, SCOTLAND.** Memorial in regard to the Harbours of Peterhead, in the County of Aberdeen, North Britain; their proposed improvement and extension, and their fitness for being formed into harbours of refuge. Edin., 1844. 7 + 14 pp., 13 x 8, b. p. no title-page.

85 **PHILADELPHIA HARBOR.** Annual report upon the improvement of Delaware River, Pa. and N. J., Schuylkill River, Pa., and rivers in Southern New Jersey, etc. U. S.-Corps of Engineers. Note: Appendix to the Annual report of the Chief of Engineers. Wash., 1891. 1 v., 9 x 6, pap.

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358 ——On the proposed removal of Smith's Island. L. M. Haupt. no place, 1878. pp. 385-395, fl., map, 10 x 7, pap.

140 ——Port of Philadelphia. L. M. Haupt. Phil., 1892. 28 pp., 9 x 6, pap.

267 **PIGEON COVE HARBOR.** Specifications, etc., for removing wreck at Pigeon Cove, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.

204 **PLYMOUTH HARBOR, ENG.** Report of the Select Committee on Plymouth Breakwater; together with minutes of proceedings, the minutes of evidence, and appendix. no place, 1835. 124 pp., 13 x 8, b. p.

204 ——Return to two orders of the House of Commons for a copy of Mr. James Walker's report, as made to the Admiralty, in respect to the proposed Sutton Harbour and docks, Plymouth; also copies or extracts of any correspondence, etc., respecting the same. no place, 1846. 5 pp., pl., maps, 13 x 8, b. p. no title-page.

339 **PLYMOUTH HARBOR, MASS.** Specifications, etc., for dredging in Plymouth Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.

333 ——Specifications, etc., for the construction of rubble-stone rip-rap, Plymouth Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 3 pp., 14 x 8, pap. no title-page.

306 **POINT WILSON HARBOR.** Specifications, etc., for building wharf at Point Wilson, Wash. U. S.-Corps of Engineers. Seattle, 1898. 10 pp., 14 x 8, pap. no title-page.

434 **PONTA DELGADA.** Notice sur le port artificiel de Ponta Delgada en construction à S. Michel, la plus importante des Iles des Açores. Lisbonne, 1873. 31 pp., 10 x 7, pap.

277 **PORT CHESTER HARBOR.** Specifications, etc., for dredging and rock excavation in Port Chester Harbor, N. Y. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.

297 **PORT CLINTON HARBOR.** Specifications, etc., for reinforcement with stone, and repair of jetties at entrance to Port Clinton Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1899. 8 pp., 14 x 9, pap. no title-page.

298 ——Specifications, etc., for removal of wreck of schooner *Onward* in Port Clinton Harbor, Ohio. U. S.-Corps of Engineers. Cleveland, 1900. 8 pp., 14 x 8, pap.

13 **PORT JEFFERSON INLET.** Specifications, etc., for furnishing and placing rip-rap stone in jetties at Port Jefferson Inlet, N. Y. U. S.-Corps of Engineers. no place, 1899. unpaged, 14 x 8, pap. no title-page.

379 **PORTAGE LAKE HARBOR.** Specifications, etc., for pier extension at Portage Lake, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 10 pp., 14 x 8, pap. no title-page.

208 **PORTDYNLLAEN HARBOR.** First report to the Committee appointed by the Lords of the Treasury, and report from Rear-Admiral *Sir* J. A. Gordon and Captain Beechy to the Lords of the Admiralty, relative to the best means of communicating between London and Dublin, and the relative capabilities of the Ports of Holyhead, Orme's Bay and Portdynllaen. no place, 1840. 50 pp., pl., maps, 13 x 8, b. p.

208 ——Further return to an order of the House of Commons for copies of all reports not yet laid before Parliament from naval officers and civil engineers who have reported on the comparative merits of Holyhead and Portdynllaen as a harbour of refuge for the Channel trade. Great Britain-Lords Commissioners of the Admiralty. no place, 1846. 8 pp., maps, 13 x 8, b. p.

208 ——Return to an order of the House of Commons for copies of any report and survey of the Harbours of Liverpool, Holyhead and Portdynllaen. Great Britain-Lords Commissioners of the Treasury. no place, 1837. 8 pp., maps, 13 x 8, b. p. no title-page.

208 ——Return to an order of the House of Commons for copy of report on Holyhead and Portdynllaen Harbours by Captain Back and Captain Fair; and copy of report of James Walker. Great Britain-Lords Commissioners of the Admiralty. no place, 1844. 17 pp., maps, 13 x 8, b. p.

204 **PORTLAND HARBOR, ENG.** Bill for constructing a breakwater in Portland Roads. no place, 1825 (?) 32 pp., 13 x 8, b. p. no title-page.

——Brief notices of works: Portland Harbor; the Severn Tunnel; the Forth Bridge; the River Clyde: the River Tyne; the Tower Bridge. L. F. Vernon-Harcourt. 1895. (See Cb-113.)

204 ——Return to an order of the House of Commons for copies of the reports and plans submitted to the Board of Admiralty for a harbour of refuge and breakwater at the Isle of Portland. no place, 1847. 5 pp., pl., maps. 13 x 8, b. p. no title-page.

204 ——Suggestions for converting Portland Roads into a harbour. Alexander Lamb. no place, 1825. 12 pp., pl., maps, 13 x 8, b. p.

443 **PORTLAND HARBOR, ME.** Specifications, etc., for dredging Portland Harbor, Me. U. S.-Corps of Engineers. Portland, 1900. unpaged, 13 x 8, pap.

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310 ——Specifications, etc., for lumber, coal, iron and other supplies for works in Portland Harbor, Me. U. S.-Corps of Engineers. Portland, 1899. 8 pp., 14 x 8, pap. no title-page.

PRESQU' ILE. Harbors of refuge: Presqu' Ile, False Presqu' Ile and Middle Island, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1858. (See Qf-112.)

PRISONER'S HARBOR. Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's harbor, Island of San Miguel, Cal. U. S.-Coast Survey. 1852. (See Qf-122.)

254 **PROVINCETOWN HARBOR.** Specifications, etc., for removing wreck from Provincetown Harbor, Mass. U. S.-Corps of Engineers. Bost., 1899. 8 pp., 14 x 8, pap. no title-page.

66 **PUGET SOUND.** Notes on Puget Sound; being extracts from notes of a reconnaissance of the proposed route of the Northern Pacific R. R. made in the summer of 1869. Samuel Wilkeson. no place, no date. 47 pp., 9 x 6, pap.

14 **QUEBEC HARBOR.** Harbour and dock works, Quebec. Woodford Pilkington. Quebec, 1879. 12 pp., pl., 9 x 6, pap.

——Quebec Railway and Harbor Works. Harbor Commissioners. 1879. (See Ab-96.)

101 **QUEENSLAND.** Report from the Engineer; 1890-92. Harbors and Rivers Department. Brisbane, no date. 3 v., 13 x 9, pap. no title-page.

495 ——Thursday Island jetty head. Harbors and Rivers Department. no place, 1890. pl., 26 x 39, pap. no title-page.

286 **RACINE HARBOR.** Specifications, etc., for improving harbor at Racine, Wis. U. S.-Corps of Engineers. Milwaukee, 1899. 7 pp., 14 x 8, pap. no title-page.

208 **RAMSGATE HARBOR.** Report; together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Select Committee on Ramsgate and Margate Harbors. no place, 1850. 14 + 219 pp., 2 pl., 13 x 8, b. p.

253 **RARITAN BAY.** Specifications, etc., for dredging in Raritan Bay and South River, N. J. U. S.-Corps of Engineers. N. Y., 1899. 7 pp., 14 x 8, pap. no title-page.

447 ——Specifications, etc., for removal of wreck *Satanella*, in Raritan Bay, N. J. U. S.-Corps of Engineers. N. Y., 1900. 7 pp., 14 x 8, pap. no title-page.

RICHMOND'S ISLAND HARBOR. Richmond's Island Harbor, Me. U. S.-Coast Survey. 1851. (See Qf-187.)

266 **ROCK POINT HARBOR.** Specifications, etc., for building a wharf at Rock Point, Md. U. S.-Corps of Engineers. Balt., 1899. 9 pp., 14 x 8, pap. no title-page.

257 **ROCKLAND HARBOR.** Specifications, etc., for dredging in Rockland Harbor, Me. U. S.-Corps of Engineers. Portland, 1898. 7 pp., 14 x 8, pap. no title-page.

258 ——Specifications, etc., for ledge excavation in Rockland Harbor, Me. U. S.-Corps of Engineers. Portland, 1898. 7 pp., 14 x 8, pap. no title-page.

209 ——Specifications, etc., for removing wreck of schooner *William H. Jones*. U. S.-Corps of Engineers. Portland, 1898. 6 pp., 14 x 9, pap. no title-page.

ROTTERDAM HARBOR. Port of Rotterdam. G. J. de Jongh. (International Cong. on Inland Navigation, 6th.) The Hague, 1894. 31 pp., map, 10 x 7, pap. Ca-6.12.

159 ——Les ports maritimes de la Hollande: Rotterdam et Amsterdam. *Baron* É. T. Quinette de Rochemont. Paris, 1890. 132 pp., pl., 9 x 6, pap.

83 **ROUEN HARBOR.** Port of Rouen: An extract from the registers kept at the harbor-office, during the last six months of the year 1885. Rouen Chamber of Commerce. no place, no date. unpaged, 10 x 8, pap.

314 **SABINE PASS HARBOR.** Specifications, etc., for building a dredge-boat for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1899. 2 v., 14 x 8, pap. no title-page.

257 ——Specifications, etc., for dredging for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1899. 10 pp., 14 x 8, pap. no title-page.

261 ——Specifications, etc., for improving harbor at Sabine Pass, Tex. U. S.-Corps of Engineers. New Orleans, 1898. 9 pp., 14 x 8, pap. no title-page.

SAGINAW BAY. Preliminary chart; lower reach of Saginaw River and bar in front, Saginaw Bay, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1856. (See Qf-161.)

——Saginaw Bay and part of Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1860. (See Qf-168.)

259 **ST. JOSEPH HARBOR.** Specifications, etc., for pier extension at St. Joseph, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 8 pp., 14 x 8, pap. no title-page.

Cc—(*Continued*).

349 ——Specifications, etc., for removing wreck of steamer *City of Duluth* from St. Joseph Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1898. 7 pp., 14 x 8, pap. no title-page.

287 ——Specifications, etc., for repairing Government Pier at St. Joseph, Mich. U. S.-Corps of Engineers. Grand Rapids, 1899. 7 pp., 14 x 8, pap. no title-page.

206 ——Specifications, etc., for the improvement of St. Joseph Harbor, Mich. U. S.-Corps of Engineers. Detroit, 1875. 11 pp., 10 x 8, pap.

ST. LAWRENCE, GULF OF. The River and Gulf of St. Lawrence, Newfoundland, Nova Scotia and the Banks adjacent; from the English Admiralty and French Marine Surveys. U. S.-Hydrographic Office. 1868. (See Qf-210.)

ST. LOUIS BAY. Preliminary chart of the west end of Fond du Lac of Lake Superior, embracing Superior, St. Louis and Allouez Bays and the St. Louis River to the head of navigation. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) 1863. (See Qf-104.)

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40 **BLACK RIVER CANAL.** Before the Canal Appraisers, in the matter of the claims for damages suffered by the breaking of the North Lake Reservoir of the B. R. Canal. Griffith, Evans & Co. *vs.* The State of New York. no place, 1869. pp. 5-868, 10 x 6, bds.

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41 ——Black River claims: Before the Canal Appraisers in the matter of the claims of William M. Coburn and others *vs.* State of New York: Points and briefs on behalf of the State. Levi H. Brown and others. Note: Claims for alleged damages resulting from the breach in the North Lake Reservoir of the canal. Oswego, N. Y., 1871. 313 + 78 + 1 pp., 9 x 6, pap.

42 ——Testimony taken before the Canal Appraisers for damages done by the breaking away of North Lake Reservoir of the B. R. Canal. Griffith, Evans & Co. *vs.* The State of New York. Albany, 1869. 407 pp., 10 x 7, pap. no title-page.

18 **CAUGHNAWAGA SHIP CANAL.** Act to incorporate a company for the construction of a ship canal to connect the waters of Lake Champlain and the River St. Lawrence Canada-Legislative Assembly. no place, 185- (?) 25 pp., 10 x 6, pap. no title-page.

12 **CHESAPEAKE & OHIO CANAL.** Act for the relief of the preferred Bondholders of the C. & O. Canal Co. Maryland-General Assembly. N. Y., 1867. 8 pp., 9 x 6, pap.

10 ——Acts of the States of Virginia, Maryland and Pennsylvania, and of the Congress of the United States in relation to the C. & O. Canal Co.; with proceedings of the Company; also Acts and Resolutions of the States of Virginia and Maryland concerning the Potomac Co. Wash., 1828. 148 + 13 pp., 9 x 6, pap.

9 ——Laws and resolutions relating to the C. & O. Canal Co. Virginia-General Assembly. Wash., 1855. 89 pp., 9 x 6, pap.

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11 ——Opinion of the Court delivered by Associate Judge Miller, in the case of the Commonwealth of Virginia *vs.* the State of Maryland, the C. & O. Canal Co. and others. Maryland-Court of Appeals. Note: Case relates to the adjudication by the Court of the priorities of the several classes of creditors of the Company. Frederick, Md., 1871. 31 pp., 9 x 6, pap.

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45 ——Resolution asking further aid from the General Government toward the completion of the C. & O. Canal, or a transfer of the interest of the United States in the stock of the same. Maryland-General Assembly. (25th Cong., 2d Sess. Senate, No. 360.) no place, 1838. 2 pp., 9 x 6. pap.

38 **DELAWARE & HUDSON CANAL CO. *vs.* PENNSYLVANIA COAL CO.** Decisions in litigations between the Companies. N. Y., 1872. 52 pp., 10 x 7, pap.

5 ——Supreme Court, Ulster County: Pleadings and testimony taken before J. H. Dubois, Referee. Note: Relates to the contract between the Companies, fixing the rate of tolls for transportation of coal on the D. & H. Canal. N. Y., 1858. 6 v., 3964 pp., maps, 19 x 7, ¾ cf.

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22 ——Acts relative to the D. & R. Canal Co., and Camden & Amboy R. R. & Transportation Co. New Jersey-Legislature. Princeton, 1840. 44 pp., 9 x 6, pap.

34 **DISMAL SWAMP CANAL.** Memorial and other papers; to the Senate and House of Representatives of the United States of America, Dec., 1877. no place, 1877. 18 + 12 pp., 8 x 5, pap.

30 **ECKERT, T. F., and others.** Memorial of a number of captains of western steamboats praying the construction of a canal around the Falls of the Ohio, on the Indiana side. (28th Cong., 1st Sess. Senate, No. 16.) no place, 1844. 3 pp., 9 x 6, pap.

26 **ERIE & MICHIGAN CANAL.** Resolutions to obtain a donation of land to aid in the construction of the E. & M. Canal. Indiana-General Assembly. (25th Cong., 2d Sess. Senate, No. 372.) no place, 1838. 1 p., 9 x 6, pap.

8 **ERIE CANAL.** Laws in relation to the Erie and Champlain Canals; together with the annual reports of the Canal Commissioners, and other documents requisite for a complete official history of those works. New York-Legislature. Albany, 1825. 2 v., pl., maps, 10 x 6, b. p.

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36 ——Memorial to the Congress of the United States relative to water communication between the Atlantic and Mississippi. Virginia-General Assembly. Richmond, 1870. 7 + 1 pp., 9 x 6, pap.

4 **LEHIGH COAL & NAVIGATION CO.** Acts concerning the L. C. & N. Co.; together with by-laws, etc. Pennsylvania-General Assembly. Phil., 1837. 79 + 1 pp., 9 x 6, b. p.

32 **LOUISVILLE & PORTLAND CANAL.** Memorial praying the purchase by the United States, of the individual stock in the L. & P. Canal Co. Louisville Chamber of Commerce. (26th Cong., 1st Sess. Senate, No. 143.) no place, 1840. 4 pp., 9 x 6, pap.

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33 **MILWAUKEE & ROCK RIVER CANAL.** Memorial of the President and Directors of the Company, praying a grant of land in aid of that work. (25th Cong., 2d Sess. Senate, No. 271.) no place, 1838. 13 pp., map, 9 x 6, pap.

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17 ——Same. N. Y., 1860. 72 pp., 9 x 6, pap.

24 ——Court of Appeals of State of New York; in the matter of the appraisal of the damages of Peter Townsend and William H. Townsend, the owners of lands required by the M. C. & B. Co. for the purpose of a reservoir for their canal: Respondents' points. J. M. Van Cott and D. F. Gedney. 9 pp., 10 x 8, pap. no title-page.

16 ——In Chancery of New Jersey: Answer of the Central R. R. Co. of New Jersey, and of John Taylor Johnson. Note: Suit relates to the objections of the M. C. & B. Co. to the right of the C. R. R. Co. of N. J. to construct the proposed pier where Mill Creek flows into New York Bay. Jersey City, 1863. 40 pp., 10 x 7, pap.

20 ——*vs.* Central R. R. Co. of New Jersey. In Chancery of New Jersey: The M. C. & B. Co. against the Central R. R. Co. of N. J. and others: Opinion, 1863. W. C. Noyes. Jersey City, 1867. 18 pp., 10 x 7, pap.

21 ——*vs.* F. O. Matthiessen and others. In Chancery of New Jersey: Bill for injunction, and testimony relating to the suit. Note: Relates to the suit over the construction of the Morris Canal Basin at Jersey City. Jersey City, 1863. 100 pp., 10 x 8, pap. no title-page.

19 ——Memorial to the New Jersey Assembly. Note: Relates to the riparian rights of the Morris Canal Co. Jersey City, 1866. 8 pp., 9 x 6, pap.

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7 ——Corrected copy of "An act to provide for the introduction of an improved system of steam towage upon the canals of the state." 2 pp., 13 x 8, pap. no title-page.

43 ——Forms and instructions, etc., in relation to the accounts of collectors of tolls of the New York State Canals, who receive toll on one canal only. Albany, 1837. 4 pts. in 1, 13 x 8, pap.

35 ——Laws and regulations of the Engineer Department of the State of New York, 1868. Albany, 1868. 29 pp., 7 x 5, pap.

——Laws, regulations, rates of toll, and names of the principal places with their distances from each other, of the New York State Canals. New York-Canal Board. Albany, 1850. 157 pp., 9 x 6, b. p. Cfh-39, p. 1005.

——Official report, and the Acts of the Legislature respecting navigable communications between the Great Western and Northern Lakes and the Atlantic Ocean. New York-Canal Commissioners. 1817. (See Cfh-40.)

Cff—(*Continued*).

——Report of the Attorney-General to the Canal Board, on the reference to him by the said Board, of the application of John Legg, to be released from the payment of rent for the use of surplus waters of the Skaneateles Lake, Mar. 3d, 1852. Albany, 1852. 6 pp., 9 x 6, b. p. Ah-24, p. 421.

1 ——Revised statute, together with sundry additional acts passed since the revision, relating to the New York State Canals. Albany, 1834. 41 pp., 9 x 6, b. p.

NIAGARA SHIP CANAL. Memorial against ceding to the United States the right to construct the N. S. Canal, and in favor of retaining it as the property of the State. Jesse Hawley (New York Assembly, No. 108.) no place, 1840. 18 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 789.

2 **OHIO.** Public documents concerning the Ohio canals which are to connect Lake Erie with the Ohio River; comprising a complete official history of these great works of internal improvement. John Kilbourn, comp. Columbus, 1828. 408 + 1 pp., 10 x 6, ¾ sh.

44 **PANAMA CANAL.** Memoir relative to an interoceanic canal for connecting the waters of the Atlantic and Pacific Oceans. Alfred Duvall. Balt., 1860. 7 + 1 pp., 9 x 6, pap.

27 **ST. MARY'S FALLS CANAL.** Improvement of the St. Mary's River and Canal: Memorial to Congress; official history of the improvement; commercial statistics for 1878. Marquette Iron Ore Association. Marquette, Mich., 1879. 96 pp., tab., 9 x 6, pap.

——Memorial to the Senate and House of Representatives of the United States. Michigan-Legislature. Note: Relative to the St. Mary's Falls Canal. (New York Assembly, No. 15.) Albany, 1841. 8 pp., 10 x 6, b. p. Cfh-15, p. 309.

31 ——Resolution relative to the construction of a ship canal around the Falls of Niagara and the Sault Ste. Maria. Michigan-Legislature. (31st Cong., 1st Sess. Senate misc., No. 5.) no place, 1849. 2 pp., 9 x 6, pap.

29 **WABASH & ERIE CANAL.** Memorial of a number of citizens of Indiana and others, praying a grant of land for the completion of the W. & E. Canal. John Caldwell and others. (25th Cong., 1st Sess. Senate, No. 78.) no place, 1844. 6 pp., 9 x 6, pap.

WATERWAYS—CANALS—REPORTS, COMPANY.

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30 **ALBEMARLE & CHESAPEAKE CANAL.** Annual report of the President and Directors; 25th; 1880. Norfolk, Va., 1880. 1 v., 9 x 6, pap.

5 **AUGUSTA CANAL.** Enlarged Augusta Canal, Augusta, Ga., its capacity and advantages for the manufacture of cotton goods; with map of location . . . by Byron Holly. N. Y., 1875. 10 pp., map, 9 x 6, pap.

BIG BLACK CREEK IMPROVEMENT CO. Annual report; 1st, 2d; 1856-57. (See Cff-25, p. 16.)

CHESAPEAKE & OHIO CANAL. Annual report of the President and Directors to the Stockholders; 3d; 1831. (See Cff-14, p. 19.)

13 ——Same; 5th-7th, 9th-28th, 30th-46th; 1833-35, '37-56, '58-74. Wash., 1833-74. 40 v., 9 x 6, pap.

11 ——Communication from the President and Directors to the Governor of Maryland. Note: Report of the proceedings of the Company from the publication of the 17th annual report, June, 1845, to Dec., 1845. no place, 1845. 55 pp., 9 x 6, pap.

10 ——Proceedings of the Stockholders at their adjourned general meetings holden on the 6th July and the 16th and 17th Aug., 1843; including the report of the Directors of the 16th of Aug., 1843. Wash., 1843. 41 pp., 9 x 6, pap.

12 ——Report of the General Committee of the Stockholders; 1836, '38, '45, '48, '50. Wash., 1836-50. 6 v., 9 x 6, pap.

7 ——Report of the President and Directors to the Stockholders for the quarter ending Nov. 30th, 1872; Feb. 28th, 1873. Annapolis, 1872-73. 2 v., 9 x 6, pap.

8 ——Report of the President to the Stockholders and Board of Directors, Dec. 13th, 1871. Note: Report relates to the working of the canal from June, 1870, to Dec., 1871, and also for the three preceding years. Balt., 1871. 29 pp., 9 x 6, pap.

9 ——Report to the Board of Directors for the year ending Dec. 31st, 1870. Balt., 1871. 1 v., 9 x 6, pap.

6 ——Report to the Stockholders on the completion of the C. & O. Canal to Cumberland, with a sketch of the Potomac Company, and general outline of the history of the C. & O. Canal Co., from its origin to Feb., 1851. Frederick, Md., 1851. 157 pp., 9 x 6, pap.

32 **DELAWARE & HUDSON CANAL.** Annual report of the Board of Managers to the Stockholders; 1850-61, '63-64, '70. N. Y., 1850-71. 15 v., 9 x 6, pap.

——Same; 1840. 1 v., 9 x 5, b. p. Cfh-29, p. 341.

——Same; 1849. 1 v., 9 x 6, b. p. Cfh-31, p. 269.

Clg—(*Continued*).

35 **DELAWARE & RARITAN CANAL CO.**, Camden & Amboy R. R. Co. and New Jersey R. R. & Transportation Co. Joint report to the Stockholders; 1st; 1867. Phil., 1867. 1 v., 9 x 6, pap.

27 ——and Camden & Amboy R. R. Co. Memoir, Feb. 3d, 1834. Note: Report of the present state and future prospects of the Companies. no place, 1834. 8 pp., 8 x 5, pap. no title-page.

23 **DELAWARE DIVISION CANAL.** Annual report of the Board of Managers to the Stockholders; 1st–6th, 8th; 1859–64, '66. Phil., 1859–66. 7 v., 9 x 6, 8 x 5, pap.

31 **DISMAL SWAMP CANAL.** Annual report of the President and Directors to the Stockholders for the fiscal year ending Sept. 30th, 1868. Norfolk, Va., 1868. 1 v., 9 x 6, pap.

FRANKLIN CANAL. Report of the Directors; 1852. 1 v., 9 x 6, b. p. no title-page. Cfh-31, p. 839.

24 **ILLINOIS & MICHIGAN CANAL.** Circular; 1-7; 1848–54. Bost., 1849–55. 7 v., 9 x 6, pap.

3 ——Report of the Board of Trustees; 1846–48. Springfield, Ill., 1847–49. 3 v., 9 x 6, b. p.

1 **JAMES RIVER & KANAWHA CO.** Annual report of the President to the Stockholders; together with the proceedings of the Stockholders; 1st–15th, 21st; 1835–49, '55. Richmond, Va., 1836–49. 16 v. in 4, 9 x 6, ¾ sh., pap.

——Same; 15th–17th; 1849–52. Richmond, Va., 1849–52. 3 v., 9 x 6, b. p. Cfh-26, p. 219.

36 **LEHIGH COAL & NAVIGATION CO.** Report of the Board of Managers to the Stockholders; 1838, '46, '54, '59–60, '62, '64–66, '68–70. Phil., 1839–71. 11 v., 9 x 6, pap.

——Same; 1833-39. Phil., 1834–40. 7 v., 9 x 6, b. p. Cfh-29, p. 429.

——Same; 1840–59. Phil., 1841–60. 20 v., 9 x 6, b. p. Cff-4, p. 149.

28 **MANCHESTER SHIP CANAL.** Reports of Sub-Committee appointed 9th Oct., 1891, to consider and examine the reports and estimates submitted to the Board of Directors by the Company's Engineer and the Corporation Engineer. Manchester, 1891. 11 pp., 8 x 6, pap. no title-page.

29 ——Statement of the Directors for the information of the Shareholders, and the owners and rate-payers of the City of Manchester. no place, 1891. 7 pp., 10 x 6, pap. no title-page.

21 **MONONGAHELA NAVIGATION CO.** Annual report; 14th, 21st–22d, 39th, 42d–44th; 1853, '60–61, '78, '81–83. Pittsburg, 1854–84. 7 v., 9 x 6, pap.

15 **MORRIS CANAL & BANKING CO.** Annual report upon the Morris Canal for the year ending July 1st, 1836. Morristown, N. J., 1836. 1 v., 9 x 6, pap.

18 ——Report of the President and Directors to the Stockholders; 1836–37, '48, '50, '53–55, '61–69. Jersey City, 1836–69. 16 v., 9 x 6, pap.

16 ——Report of the President to the Board of Directors, Aug. 12th, 1845. Note: Relates to the trouble between the Company and R. L. Colt over the use of water from the Passaic River by the Canal Co. no place, 1845. 12 pp., 9 x 6, pap.

17 ——Report of the President to the Directors, of the affairs of the Company from Jan. 1845, to Feb., 1846. Jersey City, 1846. 8 pp., 9 x 6, pap. no title-page.

26 ——Statement and map showing the unimproved property of the Company, at Jersey City. no place, 1845 (?) 11 pp., map, 9 x 6, pap.

33 **NICARAGUA CANAL.** Annual report; 1898. Maritime Canal Co. of Nicaragua. (55th Cong., 3d Sess. Senate doc. No. 13.) no place, 1898. 1 v., 9 x 6, pap.

19 **PENNSYLVANIA CANAL.** Annual report; 1st; 1867. Phil., 1868. 1 v., 9 x 6, pap.

22 **PENNSYLVANIA R. R.** Report of the Engineer and Superintendent of the Canal Department; 1860-61, '65. Harrisburg, 1861–66. 3 v., 9 x 6, pap.

4 **SCHUYLKILL NAVIGATION CO.** Report of the President and Managers to the Stockholders; 1844–62. Phil., 1845–63. 18 v. in 1, 9 x 6, ¾ mor.

25 ——Same; 1862-63, '65–'67. Phil., 1863–68. 5 v., 9 x 6, pap.

UNION CANAL. Annual report of the Managers to the Stockholders; 1853. Phil., 1853. 1 v., 9 x 6, b. p. Cfh-32, p. 83.

——Same; 1839. Phil., 1839. 1 v., 8 x 5, b. p. Yh-146, p. 657.

WABASH & ERIE CANAL. Annual report of the Trustees to the General Assembly of the State of Indiana; 1851. Indianapolis, 1851. 1 v., 9 x 6, b. p. Cfh-26, p. 171.

2 **WELLAND CANAL.** Annual report of the Board of Directors; 1832. St. Catherines, Ont., 1833. 1 v., 8 x 5, b. p.

20 **WEST BRANCH & SUSQUEHANNA CANAL.** Annual report; 1st; 1867. Phil., 1868. 1 v., 9 x 6, pap.

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CALIFORNIA—COMMISSIONERS OF THE SACRAMENTO RIVER DRAINAGE DISTRICT. Reports of the Chief and Assistant Engineers on the Drainage Canal of the Sacramento Drainage District. 1879. (See De-49.)

53 ILLINOIS—CANAL COMMISSIONERS. Report to the Governor; Dec. 1st, 1872. Note: Relates to the transfer of the Illinois and Michigan Canal from the Board of Trustees to the State; and also to the condition of the canal, lock and dam at Henry, and the improvement of the Little Wabash River. Springfield, 1872. 71 pp., 9 x 6, pap.

54 ILLINOIS—COMMISSIONERS OF THE ILLINOIS & MICHIGAN CANAL. Annual report of the Acting Commissioner to the General Assembly; 8th; 1844. Springfield, 1844. 1 v., 10 x 7, pap.

14 ——Same; 1836. Vandalia, 1837. 1 v., 10 x 6, b. p.

INDIANA—COMMISSIONERS OF THE WABASH & ERIE CANAL. Report; Dec. 19th, 1835. no place, no date. 87 pp., 9 x 5, b. p. Ac-139, p. 209.

LOUISIANA—STATE ENGINEER. Report; 1852. no place, 1853. 1 v., 9 x 6, b. p. Ab-3, p. 495.

45 MARYLAND—COMMITTEE OF INTERNAL IMPROVEMENT. Report on the condition of the Chesapeake & Ohio Canal. no place, 1841. 27 pp., 9 x 6, pap.

MARYLAND—COMMITTEE OF WAYS AND MEANS. Report in compliance with the orders of the House of Delegates in relation to the subscription of the State to certain internal improvement companies. no place, 1836. 96 pp., 9 x 6, b. p. Cfb-5, p. 217.

44 MARYLAND—GOVERNOR. Message upon the subject of the Chesapeake & Ohio Canal Co., to the General Assembly. Annapolis, 1870. 17 pp., 9 x 6, pap.

48 MASSACHUSETTS—COMMITTEE FOR WORCESTER COUNTY. Account of a proposed canal from Worcester to Providence, containing the report of the Engineer; together with some remarks upon inland navigation. Providence, 1825. 16 pp., 9 x 6, pap.

59 MINNESOTA—CANAL COMMISSIONERS. Report; 1875. St. Paul, 1876. 1 v., 9 x 6, pap.

49 NEW JERSEY—CANAL COMMISSIONERS. Report upon the subject of a canal from the Delaware to the Raritan, made Nov., 1824. Trenton, 1825. 26 pp., 9 x 6, pap.

50 NEW JERSEY—LEGISLATURE. Report of Commissioners appointed to investigate charges made against the Directors of the Delaware & Raritan Canal and Camden & Amboy R. R. & Transportation Cos. Trenton, 1850. 187 pp., 9 x 6, pap.

67 ——Report of the Commissioners appointed for the purpose of exploring the route of a canal to unite the River Delaware, near Easton, with the Passaic, near Newark; with accompanying documents. Morristown, 1823. various pagings, pl., 9 x 5, b. p.

NEW JERSEY—SECRETARY OF STATE. Annual reports of the railroad and canal companies of the State; 1854, '59, '64, '67. 1854–68. (See Ah-32.)

78 NEW JERSEY—STATE DIRECTORS OF THE DELAWARE & RARITAN Canal and Camden & Amboy R. R. Report; 1847–48, '55, '57, '59–61, '64. Trenton, 1848–65. 8 v., 9 x 5, pap.

34 NEW YORK—ASSEMBLY. Report of the Select Committee on petitions for substituting a railroad for a portion of the Genesee Valley Canal. Albany, 1841. 9 pp., 9 x 6, b. p.

NEW YORK—(ASSEMBLY) COMMITTEE ON CANAL DEPARTMENT. Report of the Minority of the Committee on the Bill to provide for the election of Auditor of the Canal Department. no place, 1855. 7 pp., 9 x 6, b. p. no title-page. Ad-251, p. 5091.

37 NEW YORK—(ASSEMBLY) COMMITTEE ON CANALS. Report in relation to the completion of a portion of the enlargement of the Erie Canal. Albany, 1843. 9 pp., 9 x 6, b. p.

16 ——Report in relation to the improvement of the Chemung Canal. no place, 1840. 5 pp., 9 x 6, b. p. no title-page.

37 ——Report of the Minority of the Committee on so much of the Governor's Message as relates to the canals. Albany, 1843. 11 pp., 9 x 6, b. p.

37 ——Report of the Minority of the Committee on that portion of the Governor's Message relating to the canals. Note: Relates to the necessity of completing the unfinished canals of the state. Albany, 1843. 28 pp., 9 x 6, b. p.

15 ——Report on petitions for the extension of the Black River Canal. Albany, 1841. 10 + 1 pp., 9 x 6, b. p.

42 ——Report on so much of the Governor's Message as relates to canals. no place, 1844. 71 pp., 10 x 6, b. p.

55 ——Report on so much of the Governor's Message as relates to the completion of the state canals. Albany, 1851. 63 pp., 9 x 6, pap.

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4 ——Report on so much of the petition of Hiram Wright and others, complaining of the official conduct of Canal Commissioners Bouck and Baker, and Engineers Hutchinson and Mills, as relates to the conduct of Commissioner Bouck relative to the neglect and unnecessary delay in opening the Erie Canal. no place, 1840. 15 pp., 9 x 6, b. p. no title-page.

37 ——Report on the petition of Asa T. Smith, relative to a rehearing on his claims for work done on Section 24 of the Erie Canal Enlargement and for a correction of errors in the estimates for bridges constructed and materials furnished on the Black River Canal. Albany, 1843. 33 pp., 9 x 6, b. p.

37 ——Report on the petition of Sage, Casler & Co., for a law authorizing and requiring the Canal Board to hear and adjust their claims for further compensation for constructing the Lower Erie Canal Aqueduct across the Mohawk River. Albany, 1843. 2 pp., 9 x 6, b. p.

41 ——Report on the petitions relative to the new line of the Erie Canal at Rome. (Assembly, No. 125.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

3 ——Report on the proposition to enlarge the Champlain Canal. no place, 1850. 3 pp., map, 9 x 6, b. p. no title-page.

41 ——Report respecting the application of Frederick House and others, to connect a slip and basin with the Branch of the Genesee Valley Canal at Dansville. (Assembly, No. 164.) no place. 1844. 6 pp., 10 x 6, b. p.

16 **NEW YORK—(ASSEMBLY) COMMITTEE ON CANALS AND INTERNAL IMPROVEMENTS.** Report on so much of the Governor's Message as relates to internal improvements. no place, 1840. 28 pp., 9 x 6, b. p.

16 ——Report on the memorial of Hervey Ely and others in relation to the appraisal of property taken for the enlargement of the Erie Canal in the City of Rochester. no place, 1840. 22 pp., 9 x 6, b. p. no title-page.

——Report on the memorial of the Junction Canal Co. no place, 1840. 9 pp., 9 x 6, b. p. no title-page. Ab-5, p. 241.

14 ——Report on the petition of Peter Bargy, Jr. Albany, 1837. 27 pp., map, tab., 10 x 6, b. p.

——Report on the petition of the inhabitants of the Counties of Saratoga, Fulton, Hamilton and Warren, for the construction of the Sacandaga Canal. no place, 1840. 5 pp., 9 x 6, b. p. Ab-5, p. 325.

16 ——Report on the petition of the proprietors of the canal basin at Rochester, known as "Childs' Slip." no place, 1839. 10 pp., 9 x 6, b. p. no title-page.

16 ——Report on the petition requesting the State to purchase the Oneida Lake Canal and Feeder. no place, 1840. 10 pp., 9 x 6, b. p. no title-page.

16 ——Report relative to the enlargement of the Erie Canal. no place, 1838. 8 pp., 9 x 6, b. p. no title-page.

10 ——Report relative to the improvement of the Erie Canal. no place, 1835. 23 pp., 9 x 6, b. p. no title-page.

38 **NEW YORK—(ASSEMBLY) COMMITTEE ON CLAIMS.** Report on the memorial of the Mayor, Aldermen and Commonalty, and the petition of about 6,000 citizens of the City of Albany, asking relief from the expenses incurred in excavating the canal basin in said city. Albany, 1848. 15 pp., 9 x 6, b. p.

41 ——Report on the petition of Brayton & Chesebrough for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Charles Stroud and others for relief, asking for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Geer & Weaver asking for additional compensation for work done on the state canals. no place, 1844. 1 p., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Geer, Kasson & Breed for additional compensation for work done on the state canals. no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of John Bt. Clute for compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Marlett & Dunham, asking for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Merrit Clark for additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

37 ——Report on the petition of Otis Eddy for an allowance of interest on estimates of work and material on the aqueduct over the Schoharie Creek; and also for damages for extending the time for completing the same. Albany, 1843. 5 pp., 9 x 6, b. p.

37 ——Report on the petition of Solomon Brown, for the passage of a law authorizing the Canal Commissioners to investigate his claim for work done on Section 31 of the Erie Canal Enlargement. Albany, 1843. 4 pp., 9 x 6, b. p.

Cfh—(*Continued*).

37 ——Report on the petition of Solomon Brown, for the passage of a law authorizing the Canal Commissioners to investigate his claim for work done on Section 36 of the Erie Canal Enlargement. Albany, 1843. 3 pp., 9 x 6, b. p.

36 ——Report on the petition of William Newton. Note: Prays for additional compensation for work done on the Chenango Canal. no place, 1841. 2 pp., 9 x 6, b. p.

36 ——Report on the petitions of Beach, Chapman & McOmber, and of James H. Mallory and others. Note: Pray for compensation beyond contract price in their contracts for bridges on the enlargement of the Erie Canal. no place, 1840. 2 pp., 9 x 6, b. p.

36 **NEW YORK—(ASSEMBLY) COMMITTEE ON GRIEVANCES.** Report on the petition of Jacob Vanderheyden. Note: Petition for compensation for injury sustained by reason of blasting, in the enlargement of the Erie Canal. no place, 1841. 3 pp., 9 x 6, b. p.

5 **NEW YORK—(ASSEMBLY) COMMITTEE ON WAYS AND MEANS.** Report on the United States Deposit Fund, and on the recommendation of the Comptroller to levy a direct tax. Note: A discussion of the State's relation to the canals. no place, 1838. 37 pp., 9 x 6, b. p. no title-page.

43 **NEW YORK—CANAL APPRAISERS.** Annual report; 1869. Albany, 1870. 1 v., 9 x 6, pap.

41 ——Report on the memorial of landowners in Frankfort and German Flats, Herkimer, on the subject of canal damages. (Assembly, No. 101.) no place, 1844. 2 pp., 10 x 6, b. p.

16 ——Report on the petition and Bill for the relief of Nathaniel S. Howard for damages caused by the appropriation of his property, and for injury to his mills and mill privileges by the construction of the Chenango Canal. no place, 1840. 4 pp., 9 x 6, b. p. no title-page.

8 **NEW YORK—CANAL BOARD.** Communication transmitting the report of D. C. Jenne, Resident Engineer, in relation to the supply of water for the Black River Canal and Black River. no place, 1850. 6 pp., 9 x 6, b. p. no title-page.

35 ——Documents accompanying the report on the enlargement of the Erie Canal. Contents: Reports by John B. Jervis, Nathan S. Roberts, Frederick C. Mills and Holmes Hutchinson. no place, 1838. 291 pp., tab., 9 x 6, b. p. no title-page.

26 ——Minutes of the meeting of Aug. 25th, 1852. Albany, 1852. 7 pp., 9 x 6, b. p.

68 ——Report giving the names and compensation of officers appointed by the Canal Board and Canal Commissioners. no place, 1840. 19 pp., 10 x 6, pap.

41 ——Report in answer to a resolution of the Assembly, of January 31st, 1844, asking for additional information about the decision of the Canal Board in the matter of the petition of William J. Nelson and Ira E. Phillips. (Assembly, No. 70.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

8 ——Report in answer to resolution relative to the improvement of Seneca River at Baldwinsville. no place, 1850. 15 pp., 9 x 6, b. p. no title-page.

35 ——Report in answer to resolutions of the Assembly respecting the canal debts and revenues, and the enlargement of the Erie Canal, etc. no place, 1840. 51 pp., 9 x 6, b. p.

47 ——Report in relation to Honeoye, Conesus and other lakes. (Senate, No. 40.) Note: Report on the question of the expediency of using the lakes as supply reservoirs for the Erie and Genesee Valley Canals. Albany, 1850. 40 pp., maps, 9 x 6, pap.

37 ——Report in relation to property shipped and left at Buffalo, Black Rock, Oswego, etc., from 1830 to the present time. Albany, 1843. 19 pp., 9 x 6, b. p.

——Report in relation to the estimated and actual cost of canals that are finished, and the estimated cost of those unfinished, etc. no place, 1837. 11 pp., 9 x 6, b. p. Cff-1, p. 471.

61 ——Report in relation to the Genesee Valley Canal. no place, 1839. 12 pp., 10 x 7, pap.

16 ——Report in relation to the surplus waters at the dams and short levels on the Oswego Canal. no place, 1839. 3 + 1 pp., 9 x 6, b. p. no title-page.

42 ——Report of damages awarded to canal contractors for breaches of contracts on the part of the State, in consequence of the suspension of the public works by the Act of 1842. Albany, 1844. 2 pp., tab., 10 x 6, b. p.

8 ——Report of the Committee on Claims on the petition of Sage, Walrath & Dunham, relative to the payment of extra compensation for the construction of the combined locks Nos. 18, 19 and 20, on the Northern Division of the Chenango Canal. no place, 1850. 7 pp., 9 x 6, b. p. no title-page.

8 ——Report on the bill to supply the Black River Canal and Black River with water. no place, 1850. 3 pp., 9 x 6, b. p. no title-page.

41 ——Report on the claim of Robert Fero under his contract for the construction of Becker's Lock on the Champlain Canal. Albany, 1844. 13 pp., 10 x 6, b. p. no title-page.

——Report on the enlargement of the Erie Canal, made to the Senate. no place, 1837. 6 pp., 9 x 6, b. p. Cff-1, p. 465.

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16 ——Report on the petition from certain inhabitants of the Village of Seneca Falls, praying for the enlargement of the Cayuga & Seneca Canal. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.

37 ——Report on the petition of Asa P. Smith, relative to extra work on the Enlarged Erie Canal. Albany, 1843. 27 pp., 9 x 6, b. p.

41 ——Report on the petition of George Heath asking compensation for the violation, by the State, of his contract. (Assembly, No. 91.) no place, 1844. 5 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Gerrit C. Sweet asking for additional compensation for work done on the state canals. (Assembly, No. 137.) Albany, 1844. 11 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Harriet Eddy and Otis Eddy asking for additional compensation for work done on the state canals. (Senate, No. 48.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of John B. Ives asking for an extra allowance on his contract. (Assembly, No. 85.) Albany, 1844. 11 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of John L. Bevins, asking settlement for work done on the state canals. Albany, 1844. 34 + 1 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of John Merriam and others asking compensation for losses on contracts. (Assembly, No. 138.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of William McLachlin asking for additional compensation. (Assembly, No. 109.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference by the Assembly of the petition of Benjamin H. Sage and William B. Williams, asking for additional compensation for work done on the state canals. (Assembly, No. 121.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference by the Assembly of the petition of Tallman & Noyes asking for additional compensation for work done on the state canals. (Assembly, No. 46.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference by the Assembly of the petition of William J. Nelson and Ira E. Phillips asking for additional compensation for work done on the state canals. (Assembly, No. 86.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference by the Assembly of the petition of William Sternburgh asking for additional compensation for work done on the state canals. (Assembly, No. 55.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference by the Assembly of the petition of Yates & Vandebogert asking for additional compensation for work done on the state canals. (Assembly, No. 108.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of Geer & Weaver. (Assembly, No. 23.) Albany, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of Geer, Kasson & Breed, asking for additional compensation for work done on the state canals. (Assembly, No. 58.) Albany, 1844. 31 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of Horace Parmele asking for additional compensation for work done on the state canals. (Assembly, No. 44.) Albany, 1844. 19 pp., 10 x 6, b. p. no title-page.

6 ——Report on the reference from the Assembly of the petition of John L. Bevins, concerning the award for damages made to him for certain works on the Erie Canal. Albany, 1844. 34 + 1 pp., 9 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of Marlett & Dunham asking for additional compensation for work done on the state canals. (Assembly, No. 56.) no place, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of R. N. Casler, asking for the speedy completion of a bridge across the Erie Canal at Little Falls (Assembly, No. 133.) Albany, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Assembly of the petition of Sanford & Eggleston asking for additional compensation for work done on the state canals. (Assembly, No. 69.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference from the Senate of the petition of J. C. Osgood, asking for additional compensation for work done on the state canals. (Senate, No. 58.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference of the petition of A. C. and E. T. Baldwin for an extra allowance on their contract. (Assembly, No. 43.) Albany, 1844. 3 + 1 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference of the petition of James H. and Amos B. King asking for additional compensation for work done on the state canals. (Assembly, No. 28.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

Cfh—(*Continued*).

41 ——Report on the reference of the petition of Jason C. Osgood and Daniel F. Kellogg, asking for additional compensation for work done on the state canals. (Senate, No. 59.) Albany, 1844. 7 pp., 10 x 6, b. p. no title-page.

41 ——Report on the reference of the petition of Thomas R. Brayton and Thomas W. Chesebrough for additional compensation for work done on the state canals. (Assembly, No. 54.) Albany, 1844. 3 pp., 10 x 6, b. p. no title-page.

12 ——Report relative to a supply of water for the Rome Summit of the Erie Canal. no place, 1836. 11 pp., 9 x 6, b. p.

35 ——Report relative to the construction of a ship canal between Lake Ontario and the Hudson River. (Assembly, No. 334.) no place, 1835. 23 pp., 9 x 6, b. p.

15 ——Report upon the petition of Andrew P. Tillman. Albany, 1841. 4 pp., 9 x 6, b. p.

35 ——Report under the Act of May 3d, 1839, relating to the survey of the several branches of the Hudson River; transmitting the report and estimates of the Engineer; with a communication to the Board from the Surveyor-General. no place, 1840. 35 pp., 10 x 6, b. p.

35 ——Report under the Act passed May 11th, 1835, in relation to the enlargement of the Erie Canal. (Assembly, No. 98.) no place, 1836. 15 pp., 9 x 6, b. p.

63 **NEW YORK—CANAL COMMISSION.** Annual report: 1st-3d; 1872-74. Note: Commission appointed to examine the subject of motive power on the canals. Albany, 1872-74. 3 v., 9 x 6, pap.

37 **NEW YORK—CANAL COMMISSIONER.** Report of the Commissioner having charge of the Black River Canal, and the Erie Canal Feeder, giving an estimate of the amount necessary to finish the same. Albany, 1843. 26 pp., 9 x 6, b. p.

41 ——Report of the Commissioner having charge of the Western Division of the Erie Canal, upon the combined locks at Lockport. Albany, 1844. 7 pp., tab., 10 x 6, b. p.

6 ——Report of the Commissioner in charge of the Genesee Valley Canal, in answer to the resolution of the Senate, relative to the cost of completing the work on the navigable portion of the Canal. Albany, 1844. 6 pp., 9 x 6, b. p. no title-page.

37 ——Report of the Commissioner in charge of the Western Division of the Erie Canal, in relation to the combined locks at Lockport. Albany, 1843. 5 pp., 9 x 6, b. p.

7 ——Report on the survey of the Conewango Canal. no place, 1840. 119 pp., 9 x 6, b. p. no title-page.

41 ——Statement of Jonas Earll, Jr., in relation to the claim of James H. King and Amos B. King for additional compensation for work done on the state canals. (Assembly, No. 154.) no place, 1844. 4 pp., 10 x 6, b. p. no title-page.

24 **NEW YORK—CANAL COMMISSIONERS.** Annual report; 1840-41, '44, '49, '51-59, '61-65, '67-71, '73-74, '76. Note: For reports subsequent to 1878 see New York-Superintendent of Public Works. Albany, 1841-77. 26 v., 9 x 6, cl., pap.

10 ——Same; 1832, '34. Albany, 1833-35. 2 v., 9 x 6, b. p.

4 ——Same; 1835-39. Albany, 1836-40. 5 v., 9 x 6, b. p.

6 ——Same; 1842, '45-47, '50. Albany, 1843-51. 5 v., 9 x 6, b. p.

42 ——Same; 1843. Albany, 1844. 1 v., 10 x 6, b. p.

8 ——Same; 1845-49. Albany, 1846-50. 5 v., 9 x 6, b. p.

35 ——Communication from the Acting Commissioner on the Genesee Valley Canal, transmitting copies of reports made by the Engineer on the said canal. Albany, 1840. 33 pp., 10 x 6, b. p.

35 ——Communication transmitting the report of the survey in continuation of the Black River Canal. Albany, 1840. 120 pp., map, 10 x 6, b. p.

40 ——Official report, and the Acts of the Legislature, respecting navigable communications between the Great Western and Northern Lakes and the Atlantic Ocean. N. Y., 1817. 174 + 12 pp., map, 9 x 6, cf.

8 ——Report as to the supply of water between Tonawanda and Montezuma for the Erie Canal. no place, 1850. 13 pp., pl., map, 9 x 6, b. p. no title-page.

7 ——Report in answer to a resolution of the Assembly in reference to the cost of the Genesee Valley and the Black River Canals. no place, 1839. 9 pp., 9 x 6, b. p. no title-page.

36 ——Report in answer to a resolution of the Assembly of the 26th Feb., 1841, relative to contracts on the canals. Albany, 1841. 42 pp., 9 x 6, b. p.

6 ——Report in answer to a resolution of the Assembly of Mar. 12th, in relation to contracts made for the enlargement of the Erie Canal. Albany, 1844. 6 pp., tab., 9 x 6, b. p.

6 ——Report in answer to a resolution of the Senate of 25th Feb., 1843, in relation to work on the Genesee Valley Canal. no place, 1843. 7 pp., 9 x 6, b. p. no title-page.

6 ——Report in answer to a resolution of the Senate, relative to the whole number of resident and assistant engineers, and their names, in the employ of the State for the last year, etc. Albany, 1845. 16 pp., 9 x 6, b. p. no title-page.

Cfh—(*Continued*).

7 ——Report in answer to the resolution of the Assembly, in reference to the locks to be constructed for the improvement and enlargement of the Erie Canal. no place, 1838. 11 pp., 9 x 6, b. p. no title-page.

5 ——Report in answer to the resolution of the Assembly of the 13th Feb., relative to the enlargement of the Erie Canal. no place. 1838. 11 pp., 9 x 6, b. p. no title-page.

6 ——Report in answer to the resolution of the Senate relative to the cost of constructing the Genesee Valley Canal. Albany, 1844. 9 pp., 9 x 6, b. p. no title-page.

41 ——Report . . . in relation to contracts made for the enlargement of the Erie Canal, etc. no place, 1844. 6 pp., tab., 10 x 6, b. p.

36 ——Report in relation to contracts on the canals. Albany, 1842. 45 pp., 9 x 6, b. p.

7 ——Report in relation to lands overflowed by water on the Tonawanda and Elicott Creeks. no place, 1838. 15 pp., 9 x 6, b. p. no title-page.

37 ——Report in relation to the Aqueduct across the Schoharie Creek. Albany, 1843. 8 pp., 9 x 6, b. p.

37 ——Report in relation to the Cayuga & Seneca Canal, and the outlet of Seneca Lake. Albany, 1843. 16 pp., 9 x 6, b. p.

7 ——Report in relation to the Chemung Canal Feeder. no place, 1838. 4 pp., 9 x 6, b. p. no title-page.

37 ——Report in relation to the Genesee Valley Canal. Albany, 1843. 7 pp., 9 x 6, b. p.

7 ——Report in relation to the improvement of the Chemung Canal. no place, 1840. 21 pp., 9 x 6, b. p. no title-page.

16 ——Report in relation to the Junction Canal. no place, 1839. 8 pp., 9 x 6, b. p. no title-page.

3 ——Report in relation to the length and width of the chamber of the Enlarged Erie Canal locks, etc. no place, 1849. 13 pp., pl., 9 x 6, b. p. no title-page.

37 ——Report in relation to the removal of the Dam on Oswego Falls and the Horse-Shoe Dam. Albany, 1843. 16 pp., 9 x 6, b. p.

10 ——Report in relation to the survey of the Black River Canal. no place, 1835. 72 pp., 9 x 6, b. p. no title-page.

41 ——Report of the Acting Canal Commissioners, on the several estimates of the cost of making the Genesee Valley Canal. Albany, 1844. 9 pp., 10 x 6, b. p. no title page.

41 ——Report of the Acting Commissioners, on resolutions of the Senate relating to closing the locks on Sunday. (Senate, No. 66.) no place, 1844. 4 + 1 pp., 10 x 6, b. p. no title-page.

37 ——Report of the Commissioners having in charge the Middle Section of the Erie Canal Enlargement, in relation to the bridges between Little Falls and Utica. Albany, 1843. 5 pp., 9 x 6, b. p.

41 ——Report on a reference from the Senate of the petition of Silas Ingraham and others, asking for additional compensation for work done on the state canals. (Senate, No. 74.) Albany, 1844. 4 pp., 10 x 6, b. p. no title-page.

4 ——Report on a resolution of the Assembly, of the 20th Feb., relative to the amount expended and to be expended in the enlargement of the Erie Canal. no place, 1839. 32 pp., 9 x 6, b. p. no title-page.

7 ——Report on a resolution of the Assembly relative to the construction of the enlargement of the Erie Canal. no place, 1839. 32 pp., 9 x 6, b. p. no title-page.

10 ——Report on a resolution of the Assembly, relative to the cost of canals and railroads. no place, 1835. 44 pp., 9 x 6, b. p. no title-page.

——Report on a resolution of the Senate of Mar. 4th, 1845. Note: Report on the proposed reservoir on Mill Creek, for supplying the Dansville Branch of the Genesee Valley Canal with water. Albany, 1845. 6 pp., 9 x 6, b. p. Dc-444, p. 560.

3 ——Report on Amsden's hydrostatic scale. Albany, 1850. 39 pp., 9 x 6, b. p.

16 ——Report on the Bill for the relief of Livingston Spraker relative to compensation for certain blasting at Little Falls. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.

38 ——Report on the canals from Lake Erie to the Hudson River, and from Lake Champlain to the same; presented to the Legislature Jan. 31st, 1818. Albany, 1818. 45 pp., 9 x 6, b. p.

36 ——Report on the petition of Franklin Livingston and David B. King. Note: Prays for remuneration by the State because of infringement of their patent on the wicket or paddle gate. no place, 1841. 4 pp., 9 x 6, b. p.

6 ——Report on the petition of inhabitants of Camillus for the use of the surplus waters of the Erie Canal. no place, 1841. 3 pp., 9 x 6, b. p. no title-page.

7 ——Report on the petition of inhabitants of the Counties of Onondaga, Oneida, Oswego and Madison for the purchase by the State of the Oneida Lake Canal Feeder no place, 1840. 5 pp., 9 x 6, b. p. no title-page.

Cfh—(*Continued*).

5 ——Report on the petition of John Stewart and others, and Cody. Beaumont & Hecox, relative to contracts for work on the Erie Canal. no place, 1838. 40 pp., 9 x 6, b. p. no title-page.

37 ——Report on the petition of Jonas Ingraham, Daniel Bolles and others, praying for the reënactment of a law, passed May 1st, 1839, relating to the Genesee Valley Canal. Albany, 1843. 7 pp., 9 x 6, b. p.

4 ——Report on the petition of Marlatt & Dunham relative to the contract of the 13th Jan., 1837, for the construction of Lock No. 3 of the enlargement of the Erie Canal. no place, 1839. 2 pp., 9 x 6, b. p. no title-page.

4 ——Report on the petition of Page, Kellogg, Sage & Co., and Clark, Strover & Sumner, relative to contracts for the construction of locks on the Glen's Falls Feeder to the Champlain Canal. no place, 1839. 4 pp., 9 x 6, b. p. no title-page.

5 ——Report on the petition of Peter Bargy, Jr., relative to contracts for work on the Chenango Canal. no place, 1837. 36 pp., 9 x 6, b. p. no title-page.

6 ——Report on the petition of sundry inhabitants of Washington and Rensselaer Counties, for a side-cut from the Champlain Canal into the Hudson River at Stillwater. no place, 1841. 6 pp., 9 x 6, b. p. no title-page.

36 ——Report on the petition of the Cohoes Co. (Senate, No. 60.) Note: Prays for compensation for damage to property done by the enlargement of the Erie Canal. no place, 1837. 6 pp., 9 x 6, b. p.

6 ——Report on the petition of the inhabitants of Monroe County, praying for the removal of the canal feeder dam on the Genesee River. no place, 1841. 3 pp., 9 x 6, b. p. no title-page.

41 ——Report on the petition of the inhabitants of Watervliet for the construction of two bridges over the canal at West Troy. (Assembly, No. 149.) no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of Timothy Eddy asking for compensation for damages done his property by the failure of the Fort Edward Dam. (Senate, No. 48.) no place, 1844. 4 pp., 10 x 6, b. p. no title-page.

4 ——Report on the petition of William Coleman and others, relative to contracts for constructing Locks Nos. 7, 9, 10, 11 and 12 of the enlargement of the Erie Canal. no place, 1839. 2 pp., 9 x 6, b. p. no title-page.

5 ——Report on the petition of William L. Crossett, Amos Story and Moses Cole, relative to the contract for constructing Section No. 2 of the Northern Division of the Chenango Canal. no place, 1837. 42 pp., 9 x 6, b. p. no title-page.

36 ——Report on the petition of William Newton. (Assembly, No. 81.) Note: Prays for lease of the surplus waters of the Chenango Canal. no place, 1841. 2 pp., 9 x 6, b. p.

41 ——Report on the reference by the Assembly of the petition of Samuel Cheever asking for the maintenance by the State of the fence bordering the Champlain Canal. (Assembly, No. 130.) no place, 1844. 3 pp., 10 by 6, b. p. no title-page.

36 ——Report on the resolution of the Assembly, calling for information relative to engineers in the employ of the State. no place, 1842. 40 pp., 9 x 6, b. p.

6 ——Report on the resolution of the Assembly in relation to the Cayuga & Seneca Canal, and the outlet of the Seneca Lake. no place, 1843. 16 pp., 9 x 6, b. p. no title-page.

37 ——Report on the resolution of the Assembly in relation to the Oneida Creek Feeder. Albany, 1843. 3 pp., 9 x 6, b. p.

10 ——Report on the resolution of the Assembly relative to the Crooked Lake Canal. no place, 1835. 18 pp., 9 x 6, b. p. no title-page.

6 ——Report on the resolution of the Senate in reference to the number and names of the engineers and assistant engineers employed on the unfinished public works during the years 1842 and 1843. no place, 1844. 11 pp., tab., 9 x 6, b. p.

7 ——Report pursuant to the Act authorizing a survey of a canal from the termination of the Chemung Canal to the State Line. no place, 1840. 57 pp., 9 x 6, b. p. no title-page.

7 ——Report relative to releasing the surplus waters of the Glens Falls Feeder Dam. no place, 1840. 2 pp., 9 x 6, b. p.

36 ——Report relative to the estimated cost of a canal from the head of Seneca Lake to the Village of Havana. Albany, 1841. 5 pp., 9 x 6, b. p.

10 ——Report relative to the improvement of the Erie Canal. no place, 1835. 72 pp., 9 x 6, b. p. no title-page.

10 ——Report relative to the survey of a canal route from Rochester to Olean. no place, 1835. 176 pp., 9 x 6, b. p. no title-page.

5 ——Report to the Assembly relative to altering the plan adopted by them for the construction of the Enlarged Erie Canal. no place, 1838. 16 pp., 9 x 6, b. p. no title-page.

6 ——Report to the Assembly relative to the contracts now existing for the enlargement of the Erie Canal, and the construction of the Genesee Valley and the Black River Canals. no place, 1841. 42 pp., 9 x 6, b. p. no title-page.

Cfh—(*Continued*).

5 ——Report to the Assembly relative to the property appropriated for the enlargement of the Erie Canal. no place, 1838. 9 pp., 9 x 6, b. p.

7 ——Report to the Legislature of their opinion of the propriety of constructing the Enlarged Erie Canal, independent of the Niagara River; and also their opinion of the effects of the dam at Black-Rock. in raising the waters of Lake Erie, etc. no place, 1839. 16 pp., 9 x 6, b. p. no title-page.

7 ——Report to the Senate relative to the amount of work under contract on the Genesee Valley Canal. no place, 1839. 3 pp., 9 x 6, b. p. no title-page.

22 **NEW YORK—CANAL DEPARTMENT.** Annual financial report of the Auditor: 1865-67, '69-73, '75-78, '80. Albany, 1866-81. 13 v., 9 x 6, cl., pap.

17 ——Annual report on the tolls, trade and tonnage of the canals of the State of New York; 1854, '65, '67-69, '71-73, '76-79, '81. Albany, 1855-82. 13 v., 9 x 6, cl., pap.

38 ——Digest of claims presented to the Canal Board from the organization of the Board to Mar. 1st, 1851. Albany, 1851. 47 pp., 9 x 6, b. p.

——Report of the Auditor, in answer to a resolution of the Senate calling for the proceedings of the Canal Board in relation to complaints or charges against certain Canal Superintendents. no place, 1853. 273 pp., tab., 9 x 6, b. p. no title-page. Ad-251. p. 3013.

71 **NEW YORK—CANAL INVESTIGATING COMMISSION.** Report of the Commission of 1868. Albany, 1868. 156 pp., 9 x 6, pap.

20 ——Testimony taken before the Commission. no place, 1875. 3v., 2653 + 6 pp., 10 x 6, pap. no title-page.

NEW YORK—COMMISSION ON CANAL NAVIGATION. Annual report; 2d; 1873. Albany, 1873. 1 v., 9 x 6, b. p. Ab-7, p. 807.

1 **NEW YORK—COMMISSIONERS OF THE CANAL FUND.** Annual report; 1835, '37-39. Albany, 1836-40. 4 v., 9 x 6, b. p.

14 ——Same; 1836. Albany, 1837. 1 v., 10 x 6, b. p.

8 ——Same; 1837, '39-41. Albany, 1838-42. 4 v., 9 x 6, b. p.

2 ——Same; 1842, '44-47. Albany, 1843-48. 5 v., 9 x 6, b. p.

38 ——Same; 1850. Albany, 1851. 1 v., 9 x 6, b. p.

59 ——Same; 1859. Albany, 1860. 1 v., 9 x 6, pap.

12 ——Annual report of the amount of tolls collected and property transported on the canals; 1835. Albany, 1836. 1 v., 9 x 6, b. p.

1 ——Same; 1837-39. Albany, 1838-40. 2 v., 9 x 6, b. p.

36 ——Same; 1841. Albany, 1842. 1 v., 9 x 6, b. p.

37 ——Same; 1842. Albany, 1843. 1 v., 9 x 6, b. p.

2 ——Same; 1843. Albany, 1844. 1 v., 9 x 6, b. p.

34 ——Report in answer to a resolution of the Assembly respecting the tonnage of the Erie Canal. Albany, 1841. 4 pp., 9 x 6, b. p.

37 ——Report in answer to three resolutions of the Senate relative to repairs, improvements and loans on the canals. Albany, 1843. 23 pp., 9 x 6, b. p.

37 ——Report in relation to loans of the Canal Fund to certain banks. Albany, 1843. 37 pp., tab., 9 x 6, b. p.

3 ——Report in reply to a resolution of the Senate, passed Mar. 14th, 1850, relative to improvements to be made on certain canals referred to in their annual report. no place, 1850. 5 pp., 9 x 6, b. p. no title-page.

1 ——Report to the Legislature relative to the amounts credited to the Commissioners in different banks. no place, 1840. 8 pp., 9 x 6, b. p. no title-page.

86 **NEW YORK—COMMITTEE ON CANALS.** Report. Note: Report relates to the policy of the State in regard to the canal question. N. Y., 1899. 231 pp., il., 69 tab., maps, 9 x 6, pap.

10 **NEW YORK—COMPTROLLER.** Annual report of expenditures upon the canals; 1832. Albany, 1833. 1 v., 9 x 6, b. p.

——Same; 1835-36. Albany, 1836-37. 2 v., 9 x 6, b. p. Cff-1, p. 535.

9 ——Same; 1838-40. Albany, 1839-41. 3 v., 9 x 6, b. p.

37 ——Same; 1841-42. Albany, 1842-43. 2 v., 9 x 6, b. p.

11 ——Same; 1843, '45-46. Albany, 1844-47. 3 v., 9 x 6, b. p.

84 ——Same; 1898. Albany, 1899. 1 v., 9 x 6, pap.

37 ——Report in answer to a resolution of the Assembly in reference to "the amount of money necessary to be raised or means provided for canal and State purposes during the current year." Albany, 1843. 4 pp., 9 x 6, b. p.

37 ——Report in answer to a resolution of the Assembly respecting the pledges of the proceeds of the Mill Tax. Albany, 1843. 3 pp., 9 x 6, b. p.

37 ——Report in answer to a resolution of the Senate in relation to contracts on the enlarged canal between Albany and Troy. Albany, 1843. 2 pp., 9 x 6, b. p.

Cfh—(*Continued*).

12 ——Report in answer to a resolution of the Senate requesting information in relation to the revenues of the lateral canals. Albany, 1836. 10 pp., 9 x 6, b. p.

37 ——Report in relation to expenditures on the enlargement of the Erie Canal from Sections Nos. 1 to 14. Albany, 1843. 39 pp., 9 x 6, b. p.

23 ——Report in relation to the sales of land near the Oswego Canal, and the contributions to, and diversions from, the Erie Canal, by the lateral canals. Albany, 1836. 78 pp., 9 x 6, b p.

37 ——Report in relation to tolls on passengers conveyed on the Erie Canal. Albany, 1843. 4 pp., 9 x 6, b. p.

36 ——Report of the Comptroller, Commissioners of the Canal Fund, and the Canal Commissioners, in compliance with the resolutions of the 25th Jan. (Assembly, No. 64.) no place, 1842. 41 pp., 9 x 6, b. p.

2 ——Report of the Comptroller, Commissioners of the Canal Fund and the Canal Commissioners, to the Assembly, relative to certain statements, facts and estimates, in reference to their respective departments. no place, 1852. 41 pp., 9 x 6, b. p. no title-page.

37 ——Report of the nature of, and payments for, services rendered by non-acting Canal Commissioners in each of the last six years. Albany, 1843. 6 + 1 pp., 9 x 6, b. p.

37 ——Report of the public services of non-acting Canal Commissioners and pay therefor, from 1828 to 1842. Albany, 1843. 5 pp., 9 x 6, b. p.

58 **NEW YORK—LEGISLATURE.** Communication from State Officers, together with documents, remarks and opinions relating to repairs of the New York state canals. Albany, 1865. 49 pp., 9 x 6, pap.

37 ——Report of the Joint Committee appointed to examine the condition of the Banking Department, the Canal Department and the Treasury. Albany, 1843. 19 pp., 9 x 6. b. p.

15 ——Report of the Joint Committee of the Senate and Assembly appointed to examine the accounts of the Treasurer, Canal Commissioners and Commissioners of the Canal Fund and the Banking Department of the Comptroller's Office. Albany, 1841. 29 pp., 10 x 6, b. p.

16 ——Report of the Joint Committee of the Senate and Assembly appointed to examine the accounts of the Treasurer, the Commissioners of the Canal Fund, and the Canal Commissioners. Albany, 1839. 34 pp., 9 x 6, b. p.

18 ——Reports of the Majority and Minority of the Joint Select Committee on Canal Lettings, relative to the actions of the Canal Board, the Canal Commissioners, State Engineer and Surveyor, etc., in awarding contracts for work on certain canals. no place, 1852. various pagings, 9 x 6, ¾ sh. no title-page.

37 **NEW YORK—SENATE.** Report of the Select Committee appointed to examine into any abuses by the Canal Commissioners in letting contracts upon the canals, etc. Albany, 1843. 70 pp., 9 x 6, b. p.

6 **NEW YORK—(SENATE) COMMITTEE ON CANALS.** Report of the Majority of the Committee relative to the work on unfinished canals in the State. no place, 1844. 61 pp., 9 x 6, b. p. no title-page.

——Report of the Majority, on the petitions and memorials relative to the construction of the Black River Canal. no place, 1836. 15 pp., 9 x 6, b. p. no title-page. Cff-1, p. 663.

42 ——Report of the Minority. Note: Protests against the additional expenditures on canals. Albany, 1844. 61 pp., 10 x 6, b. p.

37 ——Report of the Minority of the Committee on the petition of the inhabitants of Root, Montgomery County, praying for an appropriation of money to complete the enlargement of the Erie Canal, from Section No. 51 to Section No. 57. Albany, 1843. 6 pp., 9 x 6, b. p.

57 ——Report on so much of the Governor's Message as relates to the superintendence and repairs of the canals; and the engrossed Bill from the Assembly, entitled "An act relative to canal repairs and to reduce the expenses thereof." (Senate, No. 63.) no place, 1847. 61 pp., tab., 10 x 6, pap.

16 ——Report on the Bill to authorize the United States to construct the Niagara Ship Canal. no place, 1839. 14 pp., 9 x 6, b. p. no title-page.

16 **NEW YORK—(SENATE) COMMITTEE ON CANALS AND INTERNAL IMPROVEMENTS.** Report on petitions for the extension of the Chenango Canal from Binghamton to the State Line near Tioga Point. no place, 1840. 5 pp., 9 x 6, b. p. no title-page.

41 **NEW YORK—(SENATE) COMMITTEE ON CLAIMS.** Report of the Minority of the Committee on the petition of Ira E. Phillips and William J. Nelson asking additional compensation for work done on the state canals. no place, 1844. 2 pp., 10 x 6. b. p. no title-page.

41 ——Report of the Minority of the Committee, on the petitions of Harriet Eddy and Otis Eddy and the papers accompanying the same, asking for additional compensation for work done on the state canals. no place, 1844. 10 pp., 10 x 6, b. p. no title-page.

Cfh—(*Continued*).

37 ——Report on the petition of Jacob Vandemark for additional compensation for constructing Lock Section No. 1, and Section No. 4 of the Genesee Valley Canal. Albany, 1843. 6 pp., 9 x 6, b. p.

37 ——Report on the petition of John Ryan and others relative to the construction of Sections Nos. 1, 4 and 84 of the Erie Canal Enlargement. Albany, 1843. 6 pp., 9 x 6, b. p.

37 ——Report on the petition of Joseph M. Kasson and Henry Cady relative to the construction of the Aqueduct over the Genesee River at Rochester. Albany, 1843. 4 pp., 9 x 6, b. p.

37 ——Report on the petition of Orrin Chamberlin for relief relative to the damaging of certain land by the construction of the Seneca & Cayuga Canal. Albany, 1843. 2 pp., 9 x 6, b. p.

37 ——Report on the petition of Otis Eddy and others praying for a law for the settlement of claims arising under canal contracts. Albany, 1843. 3 pp., 9 x 6, b. p.

41 ——Report on the petition of Sage, Walrath & Dunham, asking for additional compensation for work done on the state canals. no place, 1844. 10 pp., 10 x 6, b. p. no title-page.

38 ——Report on the petition of Sage, Walrath & Dunham for extra allowance for work on the combined locks, Nos. 18, 19 and 20, on the Northern Division of the Chenango Canal. Albany, 1851. 8 pp., 9 x 6, b. p.

41 ——Report on the petition of Timothy Eddy asking compensation for damages done his property by the failure of the Fort Edward Dam. no place, 1844. 2 pp., 10 x 6, b. p. no title-page.

41 ——Report on the petition of William Page asking compensation for damage done his property by reason of the defective construction of the Erie Canal. no place, 1844. 1 p., 10 x 6, b. p. no title-page.

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9 **BALTIMORE, MD.** Annual report of the Water Department to the Mayor and City Council; 1859, '61, '64-65, '67-70, '72-74, '76-77, '79-80, '82-85. Balt., 1860-86. 19 v., 9 x 6, pap.

844 ——Contract and specifications, with advertisement, proposal and bond, for standpipe tower and foundations, to be located at the intersection of Granada and Ridgewood Aves., West Arlington, Baltimore, Md. no place, 1897. 16 pp., 14 x 8, pap.

845 ——Contract and specifications, with advertisement, proposal and bond, for steel stand-pipe. no place, 1897. 11 pp., 14 x 8, pap.

274 ——Report of the Commissioners, appointed by authority of the Mayor and City Council, to examine the sources from which a supply of pure water may be obtained for the City of Baltimore. Balt., 1854. 217 pp., 9 x 6, pap.

275 ——Report on condition of Druid Lake Reservoir by the Consulting Engineers to the Water Board of Baltimore. I. R. Trimble, C. P. Manning and J. H. Tegmeyer. Balt., 1868. 26 pp., pl., 9 x 6, pap.

198 ——Report to John Lee Chapman, Mayor of Baltimore, by the Joint Select Committee on the Great Gunpowder. no place, 1867. 21 + 5 pp., map, 13 x 8, bds.

422 **BANGOR, ME.** Annual report of the Water Board; 1877-81. Bangor, 1878-82. 5 v., 9 x 6, pap.

421 ——History of the Bangor Water-Works from the commencement, while under the charge of the first Board of Commissioners; by the Board of Commissioners of Water-Works. Bangor, 1877. 64 pp., 9 x 6, pap.

783 **BARNESVILLE, GA.** Specifications for water-works for Barnesville. no place, 1893. unpaged, 11 x 8, pap. no title-page.

10 **BAY CITY, MICH.** Report of the Superintendent of the Water-Works to the Board of Water Commissioners; 4th-11th, 13-15th; 1875-82, '84-86. Bay City, 1876-87. 11 v., 9 x 6, pap.

11 **BELLAIRE, OHIO.** By-laws, and rules and regulations for the management and protection of the Bellaire Water-Works, adopted Apr. 19th, 1878. Wheeling, 1878. 28 pp., 9 x 6, pap.

989 **BERLIN, GERMANY.** Berliner Wasserwerke; separat Abdruck aus der Sammlung von Zeichnungen für die Hütte. "Hütte" Verein. Ber., 1860. pl., 26 x 21, pap.

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220 **BERTHIER, QUE.** Reglements: Nos. 4 et 5, pour autoriser Joseph Ulric Foucher et Joseph Onèsime Page, de la Ville et du District de Joliette, et y faisant affaires sous la raison sociale de "J. U. Foucher & Cie.," à construire un aqueduc en fer pour l'approvisionnement d'eau de la Ville de Berthier, et pour déterminer les conditions auxquelles tel privilège leur sera ainsi accordé. Berthier, no date. 18 pp., 8 x 5, pap. no title-page.

856 **BETHANY, MO.** Specifications for a system of water-works for Bethany, Mo. Bethany, 1894. 32 pp., 6 x 4, pap.

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12 **BINGHAMTON, N. Y.** Annual report of the Board of Water Commissioners to the Common Council; 1876-79, '86. Binghamton, 1877-86. 5 v., 9 x 6, pap.

742 ——Contract and specifications for furnishing materials, laying water pipes, constructing gate-wells and intake crib for Binghamton Water-Works. no place, 1897. 9 pp., 14 x 8, pap. no title-page.

BLOOMINGTON, ILL. Annual reports of the Water Board. (See Ob30-2.1.)

BOMBAY, INDIA. Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 97.)

734 **BOONEVILLE, N. Y.** Contract, specifications and proposal for the Booneville Water-Works. no place, 1897. 46 pp., 10 x 7, pap.

BOSTON, MASS. Act for supplying the City of Boston with pure water; passed 1845. (See Dc-507, p. 132.)

——Acts relating to the water supply of Boston, from 1845 to '75. 1876. (See Dc-498, p. 198.)

489 ——Annual report of the Cochituate Water Board; 1850-56, '62-76. Bost., 1850-76 20 v. in 7, 9 x 6, ¾ ro., cl.

495 ——Same; 1851-61. 10 v., 9 x 6, b. p.

——Annual report of the Engineering Department. (See Ob35-3.1.)

490 ——Annual report of the Water Board; 1st-19th; 1877-94. Bost., 1877-95. 19 v., 9 x 6, pap.

491 ——Annual report of the Water Commissioners; 1st; 1895. Bost., 1896. 1 v., 9 x 6, cl.

197 ——Boston Water-Works; additional supply from Sudbury River; description of the work. Alphonse Fteley. Bost., 1882. 144 + 1 pp., pl., maps, 15 x 11, cl.

980 ——Boston Water-Works, Sudbury River Conduit. no place, 1876. 49 pl., 14 x 20, 14 x 29, pap. no title-page.

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498 ——Cochituate and Sudbury water supply; its present and future development. no place, 1868. 18 pp., map, 9 x 6, pap.

504 ——Communication of the Cochituate Water Board, in regard to the high-service district; and a report from the City Engineer on the same subject. (City doc. No. 38.) Bost., 1873. 9 pp., 9 x 6, pap. no title-page.

495 ——Communication of the Cochituate Water Board, on the route of the new water main. Bost., 1859. 7 pp., 9 x 6, b. p.

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754 ——Contract and specifications for building the Fisher Hill Reservoir. no place, 1865. 39 pp., 10 x 8, pap.

942 ——Contract and specifications for excavation, for stripping and shallow flowage in Basins 5 and 6. Bost., 1891. 2 v., 10 x 8, pap.

760 ——Contract and specifications for furnishing cast-iron water-pipes and special castings. no place, 1869-9-. 3 v., 10 x 7, pap.

940 ——Contract and specifications for furnishing cement for Dam No. 5. no place, 1890. 9 pp., 10 x 8, pap.

933 ——Contract and specifications for furnishing cut granite at Dam No. 5. no place, 1891. 11 pp., 10 x 8, pap.

935 ——Contract and specifications for laying paving and rip-rap on Dam No. 6. Bost., 1893. 19 pp., 10 x 8, pap.

930 ——Contract and specifications for laying six-inch water-pipe to Thompson's Island for the City of Boston. no place, 1892. 15 pp., 10 x 8, pap.

933 ——Contract and specifications for three steam boilers for Mystic Pumping Station. no place, 1890. 20 pp., 10 x 8, pap.

933 ——Contract and specifications for two siphons for water-pipes at Warren Bridge. Bost., 1869. 15 pp., 10 x 8, pap.

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536 ——Description of the Boston Water-Works. *Engineering News.* Chic., 1878. 62 pp., 5 pl., 9 x 6, cl.

488 ——Engineers' report, in relation to taking water to East Boston. E. S. Chesbrough and W. S. Whitwell. (City doc. No. 41.) Bost., 1849. 8 pp., 9 x 6, b. p.

941 ——For delivering filling on Dam 5: Specifications and contract. Bost., 1890. 18 pp. 10 x 8, pap.

939 ——Foundations for high-service Pumping Engine No. 3, at Chestnut Hill Pumping Station: Specifications and contract. Bost., 1892. 18 pp., 10 x 8, pap.

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498 ——History of the Boston Water-Works from 1868 to 1876; being a supplement to a "History of the introduction of pure water into the City of Boston; with a description of its Cochituate Water-Works, etc., 1868." Bost., 1876. 290 pp., pl., maps, 10 x 7, cl.

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942 ——Lower section of waste way: Contract and specifications, Apr., 1891. Bost., 1891. 21 pp., 10 x 8, pap.

17 ——Majority report of the Committee on Water, on union of Mystic and Cochituate Water Boards. (City doc. No. 53.) no place, 1874. 9 pp., 9 x 6, pap.

884 ——Map showing the several systems of supply already constructed; also the drainage areas of Lake Cochituate and the Charles, Sudbury, Shawshine and Mystic Rivers, May, 1878, no place, no date. sheet, 47 x 31, pap.

570 ——Method used to determine the best capacity to give to Basin No. 5, Boston Water-Works. Desmond FitzGerald. no place, 1891. 8 pp., 9 x 6, pap.

432 ——Monthly report of the Water Commissioners; 1st; May, 1846. (City doc No. 20.) Bost., 1846–. 1 v., 9 x 6, b. p.

18 ——Mystic water rates. unpaged, 6 x 3, pap. no title-page.

16 ——On the Boston water supply. W. R. Nichols. no place, 1880. 11 pp., 9 x 6, pap. no title-page.

——Opinion relative to amount of water that can be furnished from Spot Pond to the City of Boston. J. F. Baldwin. (City doc. No. 5.) Bost., 1889. 15 pp., 9 x 6, b. p. no title-page. Cc-148, p. 215.

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494 ——Papers relating to the introduction of pure water. (City doc. No. 9.) Bost., 1888. various pagings, 9 x 6, b. p.

207 ——Petitions for damages for the diversion of Sudbury River by the City of Boston; being the petitions, testimony and arguments of Counsel presented before the Commissioners under the Act of Legislature for supplying the City of Boston with pure water. W. G. Russell, J. B. Francis and C. A. Stevens. Bost., 1876. 14 + 1161 + 18 pp., 9 x 6, bds.

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19 ——Remarks on some algæ found in the water supplies of the City of Boston. W. G. Farlow. no place, 1877. pp. 75–80, 9 x 6, pap.

495 ——Report of the Boston Cochituate Water Board, on the subject of a new main pipe from Brookline to Boston. Bost., 1857. 20 pp., 9 x 6, b. p.

499 ——Report of the Cochituate Water Board, in reply to an order of the City Council, passed Oct. 31st, 1873, relating to the available quantity and purity of the Mystic water, and to other matters connected with an additional supply for Boston. Bost., 1874. 20 + 100 pp., 9 x 6, b. p.

503 ——Report of the Cochituate Water Board, on an additional supply of water, with the reports of the Chief and Consulting Engineers appointed to investigate the subject. (City doc. No. 29.) Bost., 1873. 6 + 80 pp., pl., 9 x 6, pap.

489 ——Report of the Cochituate Water Board, on proposed amendment of water rates. Bost., 1865. 9 pp., 9 x 6, b. p.

495 ——Report of the Cochituate Water Board, on the laying of the new main pipe. Bost., 1860. 7 pp., 9 x 6, b. p.

432 ——Report of the Commissioners appointed by the City Council, Aug. 26th, 1844, to report the best mode and expense of bringing the water of Long Pond into the City of Boston. (City doc. No. 24.) Bost., 1844. 32 pp., 8 x 5, b. p.

444 ——Report of the Commissioners appointed to examine the sources from which a supply of pure water may be obtained for the City of Boston. J. B. Jervis and W. R. Johnson. Bost., 1845. 128 + 32 pp., il., maps, 9 x 6, b. p.

497 ——Report of the Commissioners on the Investigation of Water Supply. (City doc. No. 129.) Bost., 1883. 7 + 186 pp., 9 x 6, pap. no title-page.

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——Report of the Committee on the Introduction of Water. (City doc. No. 33.) Bost., 1838. 35 pp., 9 x 6, b. p. no title-page. Cc-148, p. 179.

21 ——Report of the Joint Standing Committee on Water, in reply to various orders of the City Council pertaining to additional supply of water; with report of City Engineer. (City doc. No. 38.) Bost., 1874. 20 + 170 pp., map, 9 x 6, pap.

432 ——Report of the Joint Standing Committee on Water, on a plan of organization for the Water Department. (City doc. No. 57.) Bost., 1849, 12 pp., 9 x 6, b. p.

501 ——Report of the Joint Standing Committee on Water, on the impurity of the water supply, with report of Ira Remsen on the subject. Bost., 1881. 23 pp., pl., 9 x 6, pap. no title-page.

——Report of the Joint Standing Committee on Water, on the introduction of a supply of soft water into the City of Boston. (City doc. No. 19.) Bost., 1839. 20 pp., 9 x 6, b. p. no title-page. Cc-148, p. 231.

432 ——Report of the Joint Standing Committee on Water, on the petition of S. W. Hall, that the water from Lake Cochituate may be carried to East Boston. (City doc. No. 22.) Bost., 1848. 14 pp., 9 x 6, b. p.

444 ——Report of the Joint Standing Committee on Water, on the petition of Silas P. Barnes and others. (City doc. No. 8.) Bost., 1847. 36 pp., 9 x 6, b. p.

502 ——Report of the Joint Standing Committee on Water, on waste of water. (City doc. No. 78.) Bost., 1882. 14 pp., 2 pl., 9 x 6, pap. no title-page.

496 ——Report of the Joint Standing Committee on Water; together with report of the City Engineer, in reply to orders of the City Council pertaining to an increased supply of water from the Cochituate and Mystic Lakes combined, and an additional supply from Charles River. Bost., 1874. 134 pp., pl., map, 9 x 6, pap.

20 ——Report of the Medical Commission of Boston, upon the sanitary qualities of the Sudbury, Mystic, Shawshine, and Charles River waters. Bost., 1874. 108 pp., 11 pl., 9 x 6, pap.

226 ——Report of the State Board of Health, upon a Metropolitan water supply. Bost., 1895. 37 + 233 pp., maps, 9 x 6, cl.

432 ——Report of the Water Commissioners; Aug., 1849, Jan., 1850. (City docs. Nos. 38, 3.) Bost., 1849-50. 2 v., 9 x 6, b. p.

432 ——Report of the Water Commissioners, in relation to fountains. (City doc. No 53.) Bost., 1849. 7 pp., 9 x 6, b. p.

226 ——Report of the Water Commissioners, on the material best adapted for distribution water pipes; and on the most economical mode of introducing water into private houses. Bost., 1848. 67 pp., 9 x 6, b. p.

432 ——Report of the Water Commissioners, respecting the progress of the Water-Works. (City doc. No. 4.) Bost., 1849. 9 pp., 9 x 6, b. p.

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208 ——Report of the Water Meter Testing Commission. Bost., 1888. 45 pp., 12 pl., 123 tab., pap.

500 ——Report of Water Board, on supply of Cochituate water for East Boston. Bost., 1879. 6 pp., map, 9 x 6, pap. no title-page.

14 ——Report on a peculiar condition of the water supplied to the City of Boston, 1875-76. W. R. Nichols, W. G. Farlow and E. Burgess. Bost., 1876. 14 pp., 9 x 6, pap.

18 ——Report on the Boston water supply. W. R. Nichols. no place, 1879. 6 pp., 9 x 6, pap. no title-page.

633 ——Report on the capacity of the Sudbury River and Lake Cochituate water-sheds in time of drought. Desmond FitzGerald. Bost., 1887. 61 pp., 5 pl., map, pap.

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15 ——Reports on matters connected with the Boston water supply. W. R. Nichols and W. G. Farlow. Bost., 1877. 7 pp., 9 x 6, pap.

469 ——Rules and regulations of the Cochituate Water Board, adopted Apr., 1865. Bost., 1865. 11 pp., 9 x 6, b. p.

432 ——Schedule of rates of charges by the Water Commissioners, for the use of water from the Boston Water-Works. (City doc. No. 3.) Bost., 1849. 4 pp., 9 x 6, b. p.

432 ——Semi-annual report of the Boston Water Commissioners to the City Council; Dec. 2d, 1847. (City doc. No. 44.) Bost., 1847. 1 v., 9 x 6, b. p.

506 ——Short description of the Boston Water-Works; by Desmond FitzGerald, Resident Engineer. Bost., 1895. 42 + 2 pp., pl., map, 9 x 6, cl.

581 ——Some remarks on the tastes and odors of surface waters. W. R. Nichols. Bost., 1882. pp. 97-112, 9 x 6, pap.

987 ——Specifications and contract for a Belpaire fire-box boiler. no place, 1893. 24 pp., 10 x 8, pap.

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694 ——Specifications and contract for high-service Pumping Engine, No. 3. no place, 1892. 58 pp.. il., 10 x 8, pap.

695 ——Specifications and contract for Mystic Station Pumping Engine, No. 4. Bost., 1893. 86 pp., 10 x 8, pap.

1019 ——Specifications for masonry work, gate-house, bulkhead, etc., for the Boston Water-Works. no place, 1847. various pagings, 11 x 8, b. p. no title-page.

——Statutes relating to the introduction of water into the city. 1870. (See Dc-489, Annual report, 1870, p. 97.)

931 ——Steel forgings for high-service Pumping Engine No. 3: Specifications and contract, Apr., 1892. Bost., 1892. 10 pp., 10 x 8, pap.

924 ——Steel forgings for Mystic Station Pumping Engine No. 4: Specifications and contract, 1893. Bost., 1893. 10 pp., 10 x 8, pap.

928 ——Stripping, shallow flowage, and two roads: Contract and specifications, Aug., 1894. Bost., 1894. 27 pp., 10 x 8, pap.

932 ——Upper section of waste-way: Specifications and contract, Mar., 1892. Bost., 1892. 26 pp., 10 x 8, pap.

432 ——Water report of the Joint Standing Committee on Water. (City doc. No. 27.) Bost., 1847. 4 pp., 9 x 6, b. p.

749 **BOUND BROOK, N. J.** Specifications for masonry dams, Nos. 1 and 2, for Bound Brook Water-Works. no place, 1888. 8 pp., 12 x 8, pap. no title-page.

215 **BRADFIELD, ENG.** Report on the failure and bursting of a reservoir embankment belonging to the Sheffield Water-Works Co., on the night of Friday, 11th Mar., 1864. Robert Rawlinson and Nathaniel Beardmore. no place, 1864. 76 pp., pl., maps, 13 x 8, pap.

589 **BRADFORD, ENG.** Copy of all correspondence to or from the Home Office, and reports relating to the unsafe state of the Bradford Water-Works Reservoirs, since the 1st day of December last. no place, 1866. 9 pp., 13 x 9, b. p.

589 ——Copy of further correspondence relating to the Bradford Water-Works Reservoirs, in continuation of papers already presented. no place, 1866. 11 pp., 13 x 9, b. p.

216 ——Reports made to the Secretary of State for the Home Department, on the condition of the reservoirs belonging to the Corporations of the Boroughs of Sheffield and Bradford, in the County of York. no place, 1864. 1 v., pl., map, 13 x 8, pap.

859 **BRADFORD, PA.** Specifications of the manner of constructing dam and masonry for reservoir on Gilbert Brook. no place, 1887. 6 pp., 8 x 5, pap. no title-page.

BRIDGEPORT, CONN. Annual reports relating to the water supply of the city. (See Ob40-2.1.)

22 ——Report of the Superintendent of the Bridgeport Hydraulic Co., to the Directors and Stockholders; 1876-78. Bridgeport, 1876-78. 3 v., 7 x 5, pap.

23 ——Rules and regulations of the Bridgeport Hydraulic Co. Bridgeport, 1874. unpaged, 8 x 5, pap.

28 **BRIDGETON, N. J.** Annual report of the Water Committee, accompanied by the report of the Superintendent and City Treasurer; 1st-5th; 1878-82. Bridgeton, 1879-83. 5 v., 8 x 5, pap.

826 ——Graphic history of introduction of water in Bridgeton. *Bridgeton Daily.* no place, 1877. 16 pp., 6 x 4, pap.

992 **BRISBANE, QUEENSLAND.** Plans prepared for the Gold Creek Reservoir, Contracts 4 and 5. Brisbane, 1883. pl., 27 x 40, pap. no title-page.

397 **BROOKLINE, MASS.** Annual report of the Water Board; 1st-3d, 9th; 1876-78, '84. Brookline, 1876-85. 4 v., 9 x 6, pap.

187 ——Final report of the Water Commissioners. Bost., 1875. 118 pp., 9 x 6, b. p.

388 ——Report of the Committee appointed by the Town of Brookline to examine the sources of water supply, Sept., 1873. Bost., 1873. 52 pp., map, 9 x 6, pap.

398 ——Report of the Committee on Water Supply; with letters bearing upon the subject from engineers and contractors. Brookline, 1879. 42 pp., 9 x 6, pap.

394 ——Supplementary report of the Committee on Water Supply; with letter of George S. Greene. Brookline, 1879. 7 pp., 9 x 6, pap.

395 ——Supplementary report of the Water Board, Apr., 1878. Brookline, 1878. unpaged, 9 x 6, pap.

450 **BROOKLYN, N. Y.** Act to provide for the supply of the City of Brooklyn with water, passed Feb. 11th, 1857; with Acts of the Water Commissioners relating thereto. no place, 1857. 13 pp., 8 x 5, b. p.

450 ——Act to provide for the supply of the City of Brooklyn with water, passed Apr. 16th, 1859. no place, 1859. 14 pp., 8 x 5, b. p.

——Act to supply the City of Brooklyn with water, passed June 3d, 1853; with the amendments passed Apr. 7th, 1854. 1854. (See Dc-626, p. 107.)

801 ——Additional pipe conduit: Specification. no place, 1896. 182 pp., 11 x 8, pap.

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450 ——Address of the Board of Water Commissioners to the citizens of Brooklyn; with a statement by the Chief Engineer. Note: Reply to the report of the Investigating Committee of the Common Council, of Mar. 7th, 1859. N. Y., 1859. 88 pp., 8 x 5, b. p.

960 ——Analytical investigations made to determine the causes affecting the quality of the water supply during the summer of 1896. Brooklyn, 1897. 12 + 135 pp., il., 1 + 6 pl., 9 x 6, pap.

445 ——Annual report of the Nassau Water Department to the Common Council; 4th, 7th–12th; 1868, '66–71. Brooklyn, 1864–72. 8 v. in 2, 9 x 6, ¾ ro.

449 ——Same; 3d, 5th–6th; 1862, '64–65. 3 v., 8 x 5, b. p.

——Annual reports of the Department of Public Works. (See Ob45-2.1.)

606 ——Brooklyn Water-Works. A. S. Smith. no place, 1898. 136 pp., 7 pl., 9 x 6, pap.

196 ——Brooklyn Water-Works and Sewers: A descriptive memoir. N. Y., 1867. 26 + 160 pp., 58 pl., map, 15 x 12, cl.

986 ——Brooklyn Water-Works: Diagram explanatory of the distribution. N. Y., 1859. sheet, 31 x 45, pap.

450 ——By-laws, rules and regulations of the Board of Water Commissioners; adopted Aug. 27th, 1857. Brooklyn, 1857. 7 pp., 8 x 5, b. p.

691 ——Canvass of proposals for the construction of the storage reservoir in Hempstead Valley, and specifications and contract of Kingsley & Keeney, for construction of the same in 1872. Brooklyn, 1872. 104 pp., 10 x 7, pap.

446 ——Charter of the Nassau Water Co., incorporated Apr. 12th, 1855, for the purpose of supplying the consolidated City of Brooklyn with pure and wholesome water. Brooklyn, 1859. 14 pp., 8 x 5, b. p.

449 ——Communication from the Engineer to the Board of Water Commissioners, on the present position of the canal grade, accompanying comparative estimates of canal and conduit between Baisley's Pond and Hempstead Creek. no place, 1857. 8 pp., pl., 8 x 5, b. p.

450 ——Communication of the Board of Water Commissioners to the Common Council, proposing to change the plan of the water-works by substituting a closed conduit for the open canal. Brooklyn, 1858. 19 pp., 8 x 5, b. p.

450 ——Communication of the Board of Water Commissioners to the Mayor and Common Council, 28th Aug., 1857. Note: Relates to the work on the canal of the Brooklyn Water-Works from Baisley's Pond to Parsonage Creek. N. Y., 1857. 16 pp., pl., 8 x 5, b. p.

446 ——Communication to the Board of Water Commissioners, relative to the second distributing main from Ridgewood Reservoir; by James P. Kirkwood, Chief Engineer. Brooklyn, 1862. 12 pp., 8 x 5, b. p.

450 ——Communications of the Board of Water Commissioners to the Common Council. Note: Report on the change, near Jamaica Pond, from a canal to a conduit. Brooklyn, 1858. 8 pp., 8 x 5, b. p.

686 ——Documents and plans of the Water Committee, submitted to the Common Council of the City of Brooklyn, 1854. Brooklyn, 1854. 145 pp., il., 27 pl., 12 x 9, cl.

802 ——Extension of the aqueduct east of Rockville Centre: Notice to the contractors, and form of proposal and contract, Sections 1–4, 6–8. no place, 1889. 7 v., 11 x 8, pap.

686 ——History and description of the water supply of the City of Brooklyn, by the Department of City Works. no place, 1896. 24 + 306 pp., il., por., 45 pl., 81 tab., 14 x 12, cl.

342 ——In the City Court of Brooklyn; William C. Kingsley and Abner C. Keeney against the City of Brooklyn: Report of the Referees, and their opinion. J. A. Lott, T. H. Rodman and G. H. Fisher. Note: Case relating to the construction of the Hempstead Reservoir. Brooklyn, 1877. 60 pp., 10 x 7, pap.

——Laws and acts relating to the water supply of the City of Brooklyn. I. M. de Varona. 1896. (See Dc-625, p. 249.)

27 ——Majority and Minority reports of the Water Committee, on the communication of the Water Commissioners proposing to substitute a conduit in lieu of a canal; with the action of the Common Council thereon. Brooklyn, 1858. 19 pp., 9 x 6, pap.

330 ——Minority report of the Commission on the Long Island Water Supply Co., relating especially to the valuation of the franchise of the Company, and the establishment of its water rates. C. E. Emery and Edward Rowe. Brooklyn, 1898. 14 pp., 9 x 6, pap. no title-page.

450 ——Preliminary report of the Investigating Committee of the Common Council, on the management of the Brooklyn Water-Works, Mar. 7th, 1859. Brooklyn, 1859. 64 pp., 8 x 5, b. p.

450 ——Remarks on the investigation of the Water Commissioners of the Brooklyn Water-Works, Jan. 2d, 1858. J. A. Dayton. Brooklyn, 1859. 78 pp., 8 x 5, b. p.

Dc—(*Continued*).

317 ——Report in reference to the storage reservoir on Parsonage Creek; made to the Joint Committee on Law, Water and Drainage of the City of Brooklyn. W. B. Burnett. N. Y., 1875. 12 pp., 11 x 7, pap. no title-page.

450 ——Report made by an Examining Board of Hydraulic Engineers to the Water Commissioners, upon the present state of the Brooklyn Water-Works, Dec., 1858. J. B. Jervis, Frederic Graff and J. T. Clark. Brooklyn, 1858. 31 pp., 8 x 5, b. p.

446 ——Report made to the Water Committee of the Common Council of the City of Brooklyn, Mar. 1854, on a proposed plan for the introduction of water. W. B. Burnett. Brooklyn, 1854. 58 pp., 8 x 5, b. p.

430 ——Report made to the Water Committee of the Common Council of the City of Brooklyn, on supplying the city with water. W. J. McAlpine. Brooklyn, 1852. 139 + 1 pp., 9 x 6, b. p.

446 ——Report of John S. Stoddard, City Surveyor, on the subject of supplying Brooklyn with water by the well system. Brooklyn, 1854. 16 pp., 8 x 5, b. p.

450 ——Report of the Chief Engineer, in relation to proposals made by various parties to protect the cast-iron pipes from corrosion. N. Y., 1858. 62 pp., 8 x 5, b. p.

450 ——Report of the Chief Engineer of the Board of Water Commissioners, on the gaugings of the several sources of water supply for the Brooklyn Water-Works. Brooklyn, 1858. 28 pp., 8 x 5, b. p.

450 ——Report of the Chief Engineer, on the position of the Prospect Hill Engine House; with notes of certain experiments made on the water deliveries of portions of the Croton and Jersey City pipe mains. N. Y., 1858. 32 pp., pl., tab., 8 x 5, b. p.

891 ——Report of the Commissioner of City Works, commenting upon the reports of A. W. Craven and Augustus Kurth upon the water supply of the City of Brooklyn. Brooklyn, 1873. newspaper slips.

——Report of the Common Council, submitting the correspondence with the Long Island Water-Works Co. 1854. (See Dc-626, p. 75.)

444 ——Report of the Special Committee of the Common Council, on supplying the City with water; made Jan. 8th, 1849. (City doc. No. 11.) Brooklyn, 1849. 8 pp., 9 x 6, b. p.

434 ——Report of the Standing Committee on Water; and communications of W. J. McAlpine and J. B. Jervis on the subject of water for the City of Brooklyn. Brooklyn, 1851. 24 pp., 8 x 5, b. p.

450 ——Report of the Water Committee made to the Common Council, Mar. 13th, 1854; with report of Ward B. Burnett, on introduction of a supply of water. Brooklyn, 1854. 58 pp., 8 x 5, b. p.

450 ——Report of the Water Committee of the Common Council of the City of Brooklyn; and accompanying documents, presented May 5th, 1856. Note: Report relating to the proposed subscription of the City to the stock of the Nassau Water Co. Brooklyn, 1856. 47 + 1 pp., 8 x 5, b. p.

446 ——Report of the Water Committee, on the memorial of the Nassau Water Co.; submitted to the Common Council, Sept. 24th, 1855. Brooklyn, 1855. 8 pp., 8 x 5, b. p.

448 ——Report on the extent and character of the district supplying water to the City of Brooklyn; with a communication in relation to the same from James P. Kirkwood, Engineer of the Works; and an analysis of the water of the Jamaica Reservoir, by A. K. Eaton, Chemist. Theodore Weston. Brooklyn, 1861. 66 pp., pl., 8 x 5, b. p.

——Report on the final location of the conduit and canal line, Brooklyn Water-Works. 1854. (See Dc-626, p. 65.)

199 ——Report on the future extension of water supply for the City of Brooklyn, by the Department of City Works. no place, 1896. 75 pp., pl., maps, 15 x 12, cl.

544 ——Report on the proposed extension of the water-works, east of Rockville Centre. Brooklyn, 1885. 42 pp., pl., maps, tab., 9 x 6, pap.

447 ——Reports by mechanical engineers, on trials of duty made in 1857 and 1859, upon the Brooklyn, Hartford and Cambridge Pumping Engines. N. Y., 1860. 83 + 1 pp., 5 pl., 2 tab., 8 x 5, b. p.

892 ——Reports made to the Commissioner of City Works, upon the water-supply of Brooklyn. A. W. Craven and Augustus Kurth. Brooklyn, 1873. newspaper slips.

447 ——Reports on trial of duty and capacity of the pumping engines, No. 2, at Ridgewood, and No. 1, at Prospect Hill; made in 1861–62. N. Y., 1862. 47 pp., il., 8 x 5, b. p.

206 ——Reports relating to the Chicago and Brooklyn Water-Works. W. J. McAlpine. no place, 1852. 635 pp., 14 x 9, ¾ sh. no title-page. manuscript.

450 ——Rules and regulations, adopted by the Board of Water Commissioners, in relation to water. no place. 1857. 9 pp., 8 x 5, b. p.

——Rules and regulations in relation to water and sewers. 1896. (See Dc-625, p. 278.)

Dc—(*Continued*).

497 ——Sanitary qualities of the water supply of New York and Brooklyn; with chemical analysis, by C. F. Chandler. Elisha Harris. N. Y., 1868. 16 pp., 9 x 6, b. p.

449 ——Semi-annual report of the Nassau Water Department, made to the Common Council; Aug., 1860, Mar., '61. Brooklyn, 1860-61. 2 v., 8 x 5, b. p.

755 ——Specification, notice to contractors, form of proposal and contract, for engine, foundations, etc., boiler-house, boilers, etc., at the Ridgewood Pumping Station. Brooklyn, 1895. 104 pp., 11 x 8, pap.

1007 ——Specifications, etc., governing the laying, by contract, of cast-iron pipes in Brooklyn and its vicinity. no place, no date. 4 pp., 14 x 8, pap.

1019 ——Specifications for cast-iron pipe, conduit, Ridgewood Reservoir, etc., for the Brooklyn Water Works. Nassau Water Co. Brooklyn, 1856. various pagings, 13 x 8, b. p. no title-page.

——Specifications for the construction of water-works for the City of Brooklyn. 1856. (See Dc-450, p. 233.)

449 ——Statement of the Board of Water Commissioners, of water pipes laid during the seasons of 1857, 1858, and 1859; together with a report by John H. Rhodes, on the manufacture of cast-iron pipes. N. Y., 1860. 53 pp., 8 x 5, b. p.

316 ——Statement of the views and position of the Board of City Works, in relation to the completion of the new storage reservoir in Hempstead Valley. no place, 1875. 47 pp., 9 x 6, pap. no title-page.

446 ——Supply of water for the City of Brooklyn: Petition of the Nassau Water Co. to the Common Council of the City of Brooklyn, June 4th, 1855. Brooklyn, 1855. 13 pp., 8 x 5, b. p.

446 ——Treatise relating to the origin, history, and present position (position with reference to Acts passed by the Legislature) of the Williamsburg Water-Works Co. W. C. Betts. no place, 1855. 16 pp., 8 x 5, b. p.

429 ——The water question: Report of debate by the Common Council, on Friday evening, Jan. 21st, 1853. no place, 1853. 11 pp., 9 x 6, b. p.

388 **BUFFALO, N. Y.** Annual report of the Water Commissioners; 2d, 4th-22d; 1870. '72-90. Buffalo, 1871-91. 20 v., 9 x 6, pap.

187 ——Same; 1st; 1869. 1 v., 9 x 6, b. p.

——Annual reports of the Bureau of Water-Works. (See Ob50-6.1.)

638 ——General specifications for additional pumping machinery for the City of Buffalo, N. Y.; together with specifications of the mode of testing the same, and of estimating its capacity and duty, Sept. 27th, 1883. 13 pp., 9 x 6, pap.

388 ——Specifications for the construction of the new reservoir for the Buffalo City Water-Works. Buffalo, 1889. 59 pp., 9 x 6, pap.

25 **BURLINGTON, IA.** Report of the Superintendent and Secretary of the Water Co.; 1st; 1878-79. Burlington, 1880. 1 v., 9 x 6, pap.

24 ——Rules and rates of the Burlington Water Co. no place, 1878. unpaged, 6 x 3, pap.

748 **BURLINGTON, N. J.** Specifications of workmanship and material required for furnishing complete in place, at Burlington, N. J., of a stand-pipe, and to be completed by Nov. 25th, 1888, in accordance with plans drawn for that purpose. no place, 1888. 1 p., 10 x 7, pap. no title-page.

26 **BURLINGTON, VT.** Annual report of the Superintendent of Water-Works to the City Council; 1879. Burlington, 1880. 1 v., 9 x 6, pap.

——Annual report of the Superintendent of Water-Works to the City Council. (See Ob57-2.1.)

442 ——Reply to the report of D. C. Linsley, Engineer of the Burlington City Water-Works, made to the City Council, Oct. 7th, 1866. W. J. McAlpine. no place, 1866. 15 pp., 9 x 6, b. p.

442 ——Report of the Chief Engineer of Water-Works to the City Council. on a plan for the construction of the water-works. Burlington, 1866. 45 pp., 9 x 6, b. p.

442 ——Report of the Committee on Water-Works; with the analysis of lake and river waters by Henry M. Seeley, and the report of W. J. McAlpine. Burlington, 1866. 46 pp., 9 x 6, b. p.

1012 ——Water rates of the City of Burlington. Burlington, 1871-72. 2 v., 7 x 4, pap.

401 ——Water supply of Burlington, Vt.: Report to George F. Edmunds. W. P. Judson. no place, 1864. 10 pp., map, 9 x 6, pap.

BUTTE, MONT. Short account of the water-works, by the City Engineer. 1890. (See Ob65-2.1, 1st annual report, p. 14.)

CALCUTTA, INDIA. Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 101.)

CAMBRIDGE, MASS. Act to incorporate the Cambridge Water-Works. 1857. (See Dc-461, p. 519.)

187 ——Annual report of the Water Board to the City Council; together with the reports of the Registrar and Superintendent, and other documents; 6th, 10th; 1870, '74. Cambridge, 1871-75. 2 v., 9 x 6, b. p.

Dc—(*Continued*).

435 ——Same; 4th; 1868. 1 v., 9 x 5, b. p.

469 ——Same; 5th; 1869. 1 v., 9 x 6, b. p.

——Annual reports of the City Engineer. (See Oc5-2.1.)

——Annual reports of the Water Board. (See Oc5-3.1.)

846 ——Contract and specifications for dam and work at Roberts' Basin. no place, 1885. 33 pp., 10 x 8, pap.

585 ——Petition of the Mayor of Cambridge, for annexation of a part of Belmont: Hearing before the Committee on Towns. Note: Annexation desired in order to protect the water supply of Cambridge from pollution. Bost., 1880. 342 pp., 9 x 6, pap.

348 ——Report of a Special Committee of the Water Board, in relation to leakage and waste of water. Cambridge, 1876. 40 pp., 9 x 6, pap.

347 ——Report of the City Engineer, in relation to leakage from water pipes. Cambridge, 1871. 15 pp., 9 x 6, pap.

463 ——Report of the Directors of the Cambridge Water-Works to the Stockholders of the Company; 1856, '60. Cambridge, 1857-61. 2 v., 9 x 6, b. p.

346 ——Report of the Special Committee on Water Supply. Cambridge, 1879. 61 pp., 6 pl., 9 x 6, pap.

264 **CAMDEN, N. J.** Report of the Chief Engineer of the Water Department; 1872. Camden, 1873. 1 v., 9 x 6, pap.

82 ——Report of the Water Department; 1878, '80. Camden, 1879-81. 2 v., 9 x 6, pap.

177 **CANADA.** Catalogue of water-works reports and information in the United States and Canada. Edward Prince. Note: Partial catalogue of the library of Edward Prince, of Quincy, Ill. Quincy, 1879. 27 pp., 8 x 5, pap.

179 ——Table of general information concerning the water-works of the United States and Canada. Holly Manufacturing Co., pub. Lockport, 1878. 16 pp., 9 x 6, pap.

CANTON, OHIO. Annual reports of the Board of Water-Works Trustees. (See Oc15-2.1.)

85 ——Report of Trustees of the City Water-Works, and report of J. L. Pillsbury; together with report of C. Aultman, E. Ball and John Laird, and rules and regulations. Canton, 1870. 14 + 2 pp., 9 x 5, pap.

84 ——Reports of the Committee on Accounts, of Trustees of City Water-Works, and also report of Trustees of City Water-Works, for 1869 and 1870. Canton, 1871. 8 pp., 9 x 6, pap.

86 **CARBONDALE, PA.** Charter, by-laws, regulations, etc., of the Crystal Lake Water Co. Carbondale, 1869. 13 pp., 9 x 6, pap.

80 **CEDAR RAPIDS, IA.** Treasurer's report of Cedar Rapids Water Co.; 1880. no place, 1880. 2 pp., 6 x 4, pap.

434 **CHARLESTON, S. C.** Report of the Engineers employed to make a survey of the best source for obtaining a supply of pure water for the City of Charleston. F. Erdman, H. D. Steever and Henry Cartwright. Charleston, 1853. 16 pp., pl., 9 x 6, b. p.

1015 ——Report of the Scientific Committee appointed by the City Council, on 5th July, 1876, on artesian wells. Charleston, 1882. 61 pp., 9 x 6, pap.

87 **CHARLESTOWN, MASS.** Annual report of the Mystic Water Board to the City Council; 7th-11th; 1871-75. Charlestown, 1872-76. 5 v., 9 x 6, pap.

435 ——Same; 1st-3d; 1865-67. 3 v., 9 x 5, b. p.

463 ——Same; 2d-7th; 1866-71. 6 v., 9 x 6, b. p.

800 ——Contract and specifications for brick conduit, Charlestown Water-Works. Bost., 1862. 46 pp., 10 x 8, b. p.

800 ——Contract and specifications for clearing, grubbing and grading, at Mystic Pond, Charlestown Water-Works. no place, 1862. 15 pp., 10 x 8, b. p.

800 ——Contract and specifications for engine and boiler house, at Mystic River, Charlestown Water-Works. no place, 1863. 23 pp., 10 x 8, b. p.

800 ——Contract and specifications for laying iron pipe for Charlestown Water-Works. Bost., 1862. 30 pp., 10 x 8, b. p.

800 ——Contract and specifications for Mystic Pond Dam, Charlestown Water-Works. Bost., no date. 34 pp., 10 x 7, b. p.

800 ——Contract and specifications for Walnut Hill Reservoir, Charlestown Water-Works. Bost., 1862. 42 pp., 10 x 8, b. p.

800 ——Contract for pumping engines, Charlestown Water-Works. no place, 1862. unpaged, 10 x 8, b. p. manuscript.

463 ——Contract of the Mystic Water Board and Somerville Mystic Water Committee, for a supply of Mystic Lake water. 1868. Charlestown, 1869. 7 pp., 9 x 6, b. p.

186 ——Report of the Commissioners and Chief Engineer of the Charlestown Water-Works, Feb. 28th, 1865. Bost., 1865. 93 pp., 9 x 6, b. p.

435 ——Report on supplying the City of Charlestown with pure water; made for the City Council. G. R. Baldwin and C. L. Stevenson. Bost., 1860. 77 pp., map, 9 x 5, b. p.

Dc—(*Continued*).

684 ——Report on the water supply from Upper Mystic Pond for Charlestown, July, 1862. Benjamin Silliman, Jr. Charlestown, 1862. 31 pp., 9 x 6, pap.

800 ——Specifications and contract for iron water pipe and castings. 27 pp., 10 x 8, b. p. no title-page. manuscript.

——Note: The city of Charlestown was annexed to Boston in 1874. All material on the water-works of the city subsequent to that date will be found under Boston.

675 **CHATHAM, N. J.** Outline specification for pumping engines and boiler, piping in engine house, stand-pipe, for a system of water-works in the Borough of Chatham, Morris Co., N. J. N. Y., 1897. 7 pp., 9 x 6, pap.

881 ——Specifications, proposals and form of contract for materials and pipe laying for a system of water-works in the Borough of Chatham. N. Y., 1897. 16 pp., 9 x 6, pap.

463 **CHELSEA, MASS.** Inaugural address of the Mayor to the City Council, Jan. 6th, 1868. Note: Contains report of the Joint Special Committee on Introduction of Water into the City of Chelsea. no place, no date. 33 + 9 pp., 9 x 6, b. p.

33 ——Report of the Water Commissioners; 1868-71, '76-77. Note: Water supplied by the Charlestown Mystic Water-Works, now owned by Boston. Chelsea, 1868-78. 6 v., 9 x 6, pap.

784 **CHEROKEE, IA.** Contract and specifications for Cherokee Water-Works. Cherokee, 1889. unpaged, 14 x 8, pap.

808 **CHESTERFIELD, ENG.** Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak. M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.

CHICAGO, ILL. Annual reports of the Bureau of Engineering. (See Oc35-3.1 and Oc35-3.1.)

——Charter of the Hydraulic Works: An act to incorporate the Chicago City Hydraulic Co. 1851. (See Dc-441, p. 293.)

1019 ——Contract for cast-iron pipes. no place, 1855. 6 pp., 8 x 6, b. p. no title-page.

280 ——Great Chicago Lake Tunnel: The causes which led to its conception, obstacles encountered, how the work was performed, launch of the crib, etc.; also the successful completion of the great enterprise. Chic., 1867. 56 pp., pl., 9 x 6, pap.

39 ——Low-service system for the supply of water, applied to Chicago. F. C. Whitehouse, G. C. Morgan and W. Zimmermann. Chic., 1872. 8 pp., pl., 8 x 5, pap.

791 ——Proposals for the construction, delivery and erection of pumping machinery at the 68th Street and Lake View Stations. no place, 1894. 5 pp., pl., 14 x 9, pap. no title-page.

809 ——Proposals for the construction, delivery and erection of pumping machinery at the 68th Street Station of the Chicago Water-Works. Chic., 1891. 5 pp., 14 x 9, pap. no title-page.

442 ——Report made to the Water Commissioners of the City of Chicago, Sept. 26th, 1851, on supplying the city with water. W. J. McAlpine. Chic., 1851. 51 pp., 9 x 6. b. p.

280 ——Report of the Commissioners for testing the Chicago West Side pumping engines. Moses Lane, C. H. Haswell and Henry Warrington. Chic., 1877. 11 pp., il., 9 x 6, pap.

420 ——Report of the Water Commissioners, made to the Common Council, Dec. 8th, 1851; together with an Act of incorporation, and a statement of the financial condition of the City. Chic., 1851. 18 + 51 + 11 pp., 9 x 6, b. p.

——Report on the water supply and sewage disposal of Chicago. J. H. Rauch. 1886. (See Eg-65, Report of proceedings of quarterly meeting of the Illinois Board of Health, 1886, p. 6.)

206 ——Reports relating to the Chicago and Brooklyn Water-Works. W. J. McAlpine. no place, 1852. 635 pp., 14 x 9, ¾ sh. no title-page. manuscript.

38 ——Semi-annual report of the Board of Water Commissioners to the Common Council; 13th; 1857. Chic., 1858. 1 v., 9 x 6, pap.

420 ——Same; 3d; 1858. 1 v., 7 x 4, b. p.

441 ——Same; 7th, 9th; 1854, '55. 2 v., 9 x 6, b. p.

461 ——Same; 9th, 11th; 1855, '56. 2 v., 9 x 6, b. p.

471 ——Same; 19th; 1860. 1 v., 9 x 6, b. p.

1004 ——Specifications, etc., for the construction of a conduit on the line of Fullerton Avenue, between Racine Avenue and a point 850 ft. east of the Lake Shore Drive. Chic., 1875. 15 pp., 14 x 8, pap.

1002 ——Specifications, etc., for the excavation and masonry for branch tunnels, and foundations for the new engine and the engine house. Chic., 1875. 4 pp., 14 x 8, pap.

819 ——Specifications for a submarine conduit for the Hyde Park, Ill., Water-Works. G. H. Ellers. no place, 1882. 5 pp., 14 x 9, pap. no title-page.

Dc—(*Continued*).

1008 ——Specifications for extension of new lake tunnel under the city, to Lots Nos. 1, 2, 3, 4 and 41 of Block 10, in S. J. Walker's Dock Add'n, on Ashland Ave. Chic., 1873. 8 pp., 14 x 8, pap. no title-page.

810 ——Specifications for pumping machinery at the Water-Works of Chicago. Chic., 1894. 5 pp., pl., 14 x 9, pap.

808 ——Specifications for pumping machinery for the Chicago Avenue Station of the Chicago Water-Works. Chic., 1894. 5 pp., pl., 14 x 9, pap. no title-page.

905 ——Specifications for the construction and erection of a pair of pumping engines and boilers for the Chicago Water-Works. Department of Public Works. no place, 1870. 26 pp., 14 x 8, pap.

816 ——Specifications for the construction of a water tunnel under the bed of Lake Michigan. Chic., 1887. 5 pp., 14 x 9, pap.

682 ——Specifications for the construction of the extension of the Sixty-Eighth Street Tunnel. Commissioner of Public Works. Chic., 1892. 1 + 16 pp., 14 x 9, pap. no title-page.

818 ——Specifications for water-works for Hyde-Park, Ill. no place, 1868. 2 + 6 pp., 14 x 9, pap. no title-page.

837 **CHICAGO INTERNATIONAL EXHIBITION, 1893.** Specification for cast-iron water pipes. Chic., 1892. 11 + 1 pp., 14 x 8, pap.

434 **CINCINNATI, OHIO.** Analyses of the waters in the vicinity of Cincinnati; reported to the Trustees of the City Water-Works. John and J. M. Locke. Cin., 1853. 16 pp., 9 x 6, b. p.

225 ——Annual report of the Water Department; 1847-64, '67, '69-71, '73-81, '84. Cin., 1848-85. 32 v. in 16, 9 x 6, pap.

437 ——Same; 1866. 1 v., 9 x 6, b. p.

465 ——Same: 1868-69. 2 v., 9 x 6, b. p.

——Annual reports of the Water Department. (See Oc45-2.1.)

315 ——History of the Cincinnati Water-Works, by the Assistant Superintendent. T. J. Bell. Cin., 1881. 59 pp., 13 pl., 9 x 6, pap.

314 ——Majority and Minority reports of the Select Committee on Water-Works; with the report of the Engineers. no place, 1873. 69 + 33 pp., 9 x 6, pap.

309 ——Map of proposed extension and enlargement of the Cincinnati Water-Works, by T. R. Scowden, Chief Engineer of the Water Department. Cin., no date. sheet, 25 x 34, pap.

465 ——Minority report of the Water Supply Commission appointed to consider the best means of supplying the city with pure water. Cin., 1865. 13 pp., 9 x 6, b. p.

255 ——New water-works for Cincinnati. J. W. Hill. Cin., 1892. 23 pp., 9 x 6, pap.

——Ordinances relating to the management of the City Water-Works. 1854. (See Dc-225, Annual report, 1854, v. 1, p. 20.)

310 ——Report of the Board of Experts, on the test trial of the Warden compound pumping engine at the Hunt Street Station. J. W. Hill, A. G. Moore and C. Ahrens. Cin., 1879. 125 + 1 pp., pl., 9 x 6, pap.

311 ——Report of the Engineer Commission to the Board of Administration, on the extension and betterment of the City Water-Works. Cin., 1896. 84 pp., 25 pl., tab., 9 x 6, pap.

465 ——Report of the Water Supply Commission appointed to take into consideration the best method of obtaining an abundant supply of pure water for the City of Cincinnati. Cin., 1865. 75 pp., maps, 9 x 6, b. p.

254 ——Report of the Water-Works Investigation Committee. Cincinnati East End Improvement Association. no place, 1891. 11 pp., il., 9 x 6, pap.

899 ——Report to the Commissioners of Water-Works, on the investigation into the purification of the Ohio River water for the improved water supply of the City of Cincinnati; made by the Board of Trustees. Cin., 1899. 14 + 620 pp., il., 12 pl., 10 tab., 9 x 6, cl.

181 ——Special report on the extension and enlargement of the Cincinnati Water-Works. T. R. Scowden. Cin., 1872. 19 pp., map, 9 x 6, pap.

250 **CLEVELAND, OHIO.** Annual report of the Water-Works Division of the Department of Public Works, 2d-3d, 14th-35th, 38th-42d; 1857-58, '69-90, '93-97. Cleveland. 1858-98. 29 v., 9 x 6, pap.

461 ——Same; 1st; 1856. 1 v., 9 x 6, b. p.

——Same; 36th-37th; 1891-92. (See Oc50-4.1, Annual reports, 1891-92.)

437 ——Concise statement of the Water-Works Division, giving the dimensions, capacity and extent, of the important details of the Cleveland Water-Works, for general reference; taken from reports and plans from which the works are being constructed. no place, 1855. 7 pp., 8 x 6, b. p. no title-page.

461 ——Engineer's report to the Trustees of the Water-Works. Note: Three plans for constructing the Cleveland Water-Works. no place, 1853. 12 pp., 8 x 5, b. p. no title-page.

Dc—(*Continued*).

245 ——Ordinances, by-laws, rules and regulations for the management and protection of the City Water-Works, Nov. 11th, 1862. Cleveland, 1862. 32 pp., 6 x 5, pap.

499 ——Report of the Committee on Water-Works appointed by the Common Council, on the subject of a supply of pure water. Cleveland, 1853. 20 pp., 8 x 5, b. p.

420 ——Report of the Water-Works Division to the Common Council of the City of Cleveland, on the subject of water-works; together with a supplementary report suggestive of a thorough system of sewerage in connection with water-works. Cleveland, 1853. 24 pp., 8 x 5, b. p.

248 ——Report on the proposed extension of the water-works tunnel, intercepting sewerage system and river flushing tunnel, for Cleveland. Rudolph Hering and others. no place, 1896. 11 pp., map, 9 x 6, pap.

247 ——Report on water-works, to the Trustees, by T. R. Scowden, Engineer. Cleveland, 1856. 8 pp., 9 x 6, pap.

482 ——Report, to the Trustees of the Cleveland City Water-Works, of the analysis of the city water. J. L. Cassels. Cleveland, 1866. 24 pp., 8 x 5, b. p.

836 **COLLEGE POINT, N. Y.** Engine house and dwelling, College Point Water-Works. no place, no date. sheet, 22 x 24, cl.

277 **COLORADO SPRINGS, COLO.** Report of the Joint Committee on Water System to the Mayor and Common Council. Colorado Springs, 1893. 25 pp., 9 x 6, pap.

249 **COLUMBUS, OHIO.** Annual report of the Trustees of the Water-Works; with the reports of the Superintendent and Secretary; 1st–11th, 13th–14th; 1871–81, '83–84. Columbus, 1871–84. 13 v., 9 x 6, pap.

244 ——By-laws and regulations of Columbus Water-Works, in force May 1st, 1877. Columbus, 1877. 36 pp., 6 x 4, pap.

188 **CONCORD, MASS.** Report of the Water Commissioners, and description of the water-works. no place, 1873. 24 pp., 9 x 6, b. p. no title-page.

188 ——Report of the Water Commissioners, relating to the need of a system of water-works for the town. no place, 1873. 16 pp., 9 x 6, b. p. no title-page.

31 **CONCORD, N. H.** Annual report of the Board of Water Commissioners; 1st–3d, 5th–7th, 10th–11th; 1872–74, '77–79, '81–82. Concord, 1873–83. 8 v., 9 x 6, pap.

CONNECTICUT. Report on the investigations of river pollution and water supplies, 1879, '93–99. State Board of Health. (See Eg-94.)

COPENHAGEN, DENMARK. Water supply of Denmark. I. Rump. 1891. (See Eg-98, p. 71.)

COVINGTON, KY. Annual reports of the Board of Water Commissioners. (See Oc70-2.1.)

175 ——By-laws, rules and regulations for the management and protection of the water-works. Covington, 1876. 15 pp., 9 x 6, pap.

701 ——Final report to the Trustees of the Covington Reservoir, with an appendix; by G. Bouscaren, Chief Engineer. Cin., 1891. 172 pp., 9 x 6, pap.

185 ——Report of the Committee, on construction of the Holly Water-Works, together with the reports of the Engineer and Superintendent, and Secretary, with by-laws, ordinances, etc., for the government of the works. Covington, 1871. 95 pp., 9 x 6, b. p.

——Specifications for the new water-works. 1891. (See Dc-701, p. 55.)

CUBA, N. Y. Notes in relation to the Genesee River at Rochester, the Albany Bridge, the Rock Island Bridge, and the Water-Works of Cuba. W. J. McAlpine. no date. (See Cb-221.)

495 **DANBURY, CONN.** Kohanza Water-Works, for the Borough of Danbury: Contract and specifications for their reconstruction. no place, 1869. 8 pp., 8 x 5, b. p.

48 **DANVERS, MASS.** Annual report of the Water Commissioners; 1st, 3d-6th; 1876, '78–81. Danvers, 1877–82. 5 v., 9 x 6, pap.

306 **DARMSTADT, GERMANY.** Die Wasserversorgung von Darmstadt, nebst Kostenvoranschlag. Darmstadt, 1878. 50 pp., pl., maps, 9 x 6, pap.

747 **DARTMOUTH, N. S.** Specifications for cast-iron pipes and special castings. no place, 1891. unpaged, 14 x 9, pap. no title-page.

40 **DAYTON, OHIO.** Annual report of the Trustees of the Water-Works; together with the reports of the Superintendent, Secretary and Engineer; 1st-12th, 15th; 1870–81, '84. Dayton, 1871–85. 13 v. in 8, 9 x 6, pap.

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565 **GLASGOW, SCOTLAND.** Glasgow Corporation Water-Works: Report on the cheapest means of procuring a supply of water for the factory owners named in the Act of 1866, and for manufacturing purposes generally throughout the city. J. M. Gale. Glasgow, 1872. 24 pp., 9 x 6, pap.

560 ——Glasgow Corporation Water-Works: Report on the length of time the existing works may be expected to meet the requirements of the city. J. M. Gale. Glasgow, 1872. 11 pp., 8 x 5, pap.

559 ——Glasgow Corporation Water-Works: Reports on the waste of water; 1st—the proceedings following on the inspection; 2d—the regulations as to water fittings. J. M. Gale. Glasgow, 1873. 12 pp., 9 x 6, pap.

267 ——Glasgow Water-Works: Papers read during the session 1863-64, to the Institution of Civil Engineers in Scotland. J. M. Gale. Glasgow, 1864. 56 pp., pl., 9 x 6, pap.

218 ——History of the water supply of Glasgow, from the commencement of the present century; with descriptions of the water-works projected, executed, and from time to time in operation. John Burnett. Glasgow, 1869. 184 pp., maps, 9 x 5, cl.

601 ——Proof taken on the 21st day of Oct., 1856, in relation to the compensation to be paid to the Glasgow Water Co. for rights, powers and privileges transferred to the Corporation of Glasgow. Edin., 1856. various pagings, 11 x 9, cl. no title-page.

460 ——Report of the Water Commissioners on the rearrangement and extension of the water pipes in the city; by John Frederic Bateman. Glasgow, 1858. 68 pp., map, 9 x 6, ro.

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1019 ——Specification for cast-iron water pipe. Water Commissioners. no place, 1856. various pagings, pl., 13 x 9, b. p.

817 ——Specifications for work on the Loch Katrine Aqueduct of the Glasgow Corporation Water-Works. Glasgow, 1855-57. 7 v. in 6, 12 x 8, pap. no title-page.

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58 ——Report concerning the supplying of Grand Rapids with water. J. L. Pillsbury. Grand Rapids, 1871. 8 pp., 9 x 6, pap. no title-page.

448 ——Report made to the Special Committee of the Common Council of the City of Grand Rapids. Peter Hogan. Grand Rapids. 1873. 26 pp., 8 x 5, b. p.

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——Reports of the City Engineer. (See Og50-2.1.)

964 ——Water rates, and rules and regulations adopted by the Board of Public Works, Mar. 19th, 1881. Grand Rapids, 1881. 15 pp., 6 x 4, pap.

212 **GREAT BRITAIN.** Act for consolidating in one act certain provisions usually contained in acts authorizing the making of water-works for supplying towns with water. (10th Victoriæ, cap. 17.) Lond., 1861. pp. 241-266, 13 x 8, pap.

696 ——Rapport adressé à M. le Maire de la Ville d'Angers, sur le résultat du voyage entrepris par eux, au mois de Juin, 1852, pour l'étude des principales questions relatives à la distribution des eaux dans plusieurs villes d'Angleterre et d'Écosse. Houyau, et A. Blavier. Angers, 1852. 48 pp., 11 x 9, pap.

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214 ——Return of the gross receipts for water supplied by each of the public companies incorporated for the supply of water in England, and the aggregate amount assessed to the poor rate, for the years 1854, 1855 and 1856. no place, 1858. 18 pp., 13 x 8, pap.

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790 **GREENVILLE, TEX.** General contract for work to be done for the Greenville Water and Electric Light Co. no place, 1888. unpaged, 14 x 8, pap.

843 ——Specifications for a dam and reservoir for the Greenville Water and Electric Light Co., at Greenville, Tex. Note: Specifications for a stone or hard-burnt brick dam. no place, no date. unpaged, 14 x 8, pap.

789 ——Specifications for buildings for the Greenville Water and Electric Light Co. no place. no date. unpaged, 14 x 8, pap.

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1014 **GUATEMALA, GUAT.** Informe de la Comisión que por orden del Supremo Gobierno inspeccionó las obras del agua de esta Capital. Daniel Taracena, Manuel Aguilar and G. W. Haines. Guatemala, 1891. 30 pp., 10 x 7, pap.

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705 ——Reports on water meter tests. May 27th and Aug. 5th, 1856. G. W. Stevenson. Kilmarnock, 1856. 8 pp., 9 x 6, pap.

618 **HAMBURG, GERMANY.** Die neuen Filteranlagen für die Wasserversorgung Hamburgs. F. A. Meyer. München, 1893. 13 pp., il., map, 13 x 10, pap.

423 **HAMILTON, ONT.** Report on supplying the City of Hamilton, C. W., with water from Burlington Bay; submitted Nov. 10th, 1851. Samuel McElroy. N. Y., 1855. 33 pp., 8 x 5, b. p.

224 ——Report on the supply of water to the City of Hamilton. T. C. Keefer. Montreal, 1856. 43 pp., map, 8 x 5, b. p.

64 ——Schedule of water rates. Hamilton, 1877. unpaged, 8 x 6, pap.

453 ——Semi-annual report of the Board of Water Commissioners; 1st-3d, 5th-6th, 8th; 1857-58, 59-60, 61. Hamilton, 1857-61. 6 v., 9 x 6, b. p.

224 ——Specifications and estimates of the three successful competitors for premiums offered by the City Council, for the best mode of supplying the city with water; together with the report thereupon of T. C. Keefer. Hamilton, 1855. 77 pp., 8 x 5, b. p.

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679 ——Specifications for two double-cylinder rotative pumping engines, one hundred horse-power, each. 17 pp., 13 x 8, pap. no title-page. manuscript.

——Statements of the receipts and expenditures of the Hamilton Water-Works. (See Oh10-2.1.)

68 ——Water rates and regulations adopted in relation to the introduction and use of the water from the city water-works. Hamilton, 1872. 8 pp., 8 x 5, pap.

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736 ——Drawings of the pumping engines and stand-pipe in use at Harrisburg, Pa. H. P. M. Birkinbine. Phil., no date. 7 pl., 9 x 14, pap. no title-page.

427 ——Report of the Water Commissioners upon a better supply of water for the City of Harrisburg, by the Engineer, Aug., 1869. Harrisburg, 1869. 31 pp., 9 x 6, b. p.

428 **HARTFORD, CONN.** Act of the General Assembly, to provide for a supply of pure and wholesome water in the City of Hartford. no place, 1853. 11 pp., 8 x 5, b. p. no title-page.

50 ——Annual report of the Board of Water Commissioners to the Court of Common Council; 14th-20th, 23d-27th, 33d; 1868-74, '77-81, '87. Hartford, 1868-87. 13 v., 9 x 6, pap.

441 ——Same; 2d; 1856. 1 v., 9 x 6, b. p.

191 ——Same; 21st-22d; 1875-76. 2 v., 9 x 6, b. p.

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425 ——Contract for excavating and refilling the trenches for the water pipes, etc. no place, 1850. 7 pp., 8 x 5, b. p. no title-page.

422 ——Proposal for a Cornish engine and pump, of sixty-five horse power. 3 pp., 8 x 5, b. p. no title-page.

423 ——Proposal for digging trenches for water pipes, etc. 3 pp., 8 x 5, b. p. no title-page.

424 ——Proposal for furnishing cast-iron pipes. 3 pp., 8 x 5, b. p. no title-page.

426 ——Proposal for furnishing stop-cocks and hydrants. 3 pp., 8 x 5, b. p. no title-page.

438 ——Report of the Board of Water Commissioners, transmitting the report of W. E. Worthen, upon the subject of an additional supply of water, Mar. 7th, 1864. Hartford, 1864. 12 pp., 9 x 6, b. p.

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979 ——Views of the Palatino Reservoir, Vento Water-Works, Havana, Cuba. E. S. Gould. no place, 1892 (?) phot., 20 x 13, ¾ mor.

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429 **HOBOKEN, N. J.** Act for the appointment of commissioners in relation to supplying the Townships of Hoboken, Van Vorst, and the City of Jersey with pure and wholesome water. no place, 1851. 16 pp., 9 x 6, pap.

785 ——Contracts and specifications, Hackensack Water Co. no place, 1881. 33 pp., 9 x 7, pap.

65 ——Report of the Board of Water Commissioners to the Mayor and Council; with accompanying documents; 4th-6th; 1862-64. Note: Water supplied by the Jersey City Water-Works from 1852 to 1862. Hoboken, 1862-64. 3 v., 9 x 6, pap.

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412 ——Report of the Water Commissioners of North Hudson County on the proposed new water-works for Hoboken, Weehawken, West Hoboken, and the Town of Union, N. J. Jersey City, 1873. 55 pp., pl., map, 9 x 6, pap.

68 ——Tariff of rates and regulations for the use of the Passaic water; also rules regulating the plumbing of houses. Hoboken, 1877. 13 pp., 9 x 6, pap.

60 **HOLLY, MICH.** Report of trial test of water-works at Holly, Mich., Dec. 16th, 1879; also report of Construction Committee, and press notices. *Holly Advertiser.* no place, no date. 10 + 2 pp., pl., 9 x 6, pap.

61 **HOLYOKE, MASS.** Annual report of the Board of Water Commissioners; 1874-81. Holyoke, 1875-82. 8 v., 9 x 6, pap.

——Proposals, contract and specifications, for a stone dam across the Connecticut River at Holyoke, Mass. 1895. (See Dd-22.)

573 **HONOLULU, H. I.** Report on the filtration of the Nuuanu water supply of Honolulu, H. I. Rudolph Hering. N. Y., 1897. 34 + 2 pp., 9 x 6, pap.

62 **HUDSON, N. Y.** Annual report of the Water Commissioners; 3d-6th; 1875-78. Hudson, 1875-78. 4 v., 9 x 6, pap.

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66 **INDIANAPOLIS, IND.** Annual report of the Indianapolis Water-Works Co.; 1st-2d; 1871-72. Indianapolis, 1872-73. 2 v., 9 x 6, pap.

437 ——Articles of association, charter, etc., of the Indianapolis Water-Works Co. N. Y., 1866. 22 pp., 9 x 6, b. p.

282 ——Report of plan and approximate estimates of cost to supply the City of Indianapolis with water. W. E. Worthen. Indianapolis, 1874. 23 pp., 9 x 6, pap.

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69 ——Water-works ordinance, establishing water rates and adopting rules and regulations governing the use of water from the water-works. 8 pp., 8 x 5, pap. no title-page.

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429 **JERSEY CITY, N. J.** Act for the appointment of commissioners in relation to supplying the Townships of Hoboken, Van Vorst, and the City of Jersey with pure and wholesome water. no place, 1851. 16 pp., 9 x 6, pap.

488 ——Act relating to the Jersey City water and drainage works. Jersey City, 1869. 23 pp., 8 x 5, b. p.

486 ——Acts of the Legislature in reference to water supply and sewerage, and reports of Water Commissioners; with accompanying documents. Jersey City, 1864. 338 pp., pl., 8 x 5, b. p.

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485 ——Further supplement to "An act to authorize the construction of works for the supply of Jersey City and places adjacent with pure and wholesome water," approved Mar. 25th, 1852. New Jersey-Legislature. no place, 1854. 14 pp., 9 x 6, b. p. no title-page.

379 ——*In re* the proposed dam across the Passaic River. Note: Notes of arguments made before a Committee of the Senate, favoring the passage of a bill permitting the erection of a dam over the Passaic River to prevent the pollution of the water supply of Newark and Jersey City. Newark, 1882. 51 pp., 9 x 6, pap.

380 ——Pollution of the Passaic River; embracing the report of the Special Committee appointed to represent the Newark Aqueduct Board in the Board of Inspection of the Passaic River and its Tributaries. Newark, 1882. 32 pp., pl., 9 x 6, pap.

485 ——Report of the Board of Water Commissioners to the Mayor and Common Council; 5th-7th; 1854-56. Jersey City, 1854-56. 3 v., 9 x 6, b. p.

487 ——Same; 11th-22d; 1860-69. 11 v., 8 x 5, b. p.

488 ——Same; 13th-23d; 1861-70. 11 v., 8 x 5, b. p.

——Same; 1st-10th; 1852-59. (See Dc-486, p. 45.)

965 ——Report of the Chief and the Consulting Engineer of the Board of Public Works, 1871. Note: Report on the advisability of substituting the Worthington duplex engines for Cornish engines for the high-service water supply of Jersey City. no place, no date. 8 pp., 9 x 6, pap.

351 ——Report of the Finance Committee of the Board of Water Commissioners, of the receipts and expenditures on account of the Jersey City Water-Works and Sewers, from July 1st, 1857, to July 1st, 1861; also, showing the arrearages of water rents and assessments for sewers, up to July 1st, 1861. Jersey City, 1861. 20 pp., 9 x 6, pap.

86 ——Report of the Finance Committee of the Board of Water Commissioners, upon the issue of bonds made under the several acts of the Legislature for supplying Jersey City with water, from the commencement of the works to Oct. 30th, 1860. Jersey City, 1861. 31 pp., 8 x 5, b. p.

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439 ——Report of the Water Commissioners for Hoboken and Jersey City; with appendix. Jersey City, 1852. 62 + 1 pp., 9 x 6, b. p.

485 ——Short historical and descriptive account of the Jersey City Water-Works. J. D. Ward. Albany, 1856. 14 pp., pl., 9 x 6, b. p.

685 ——Specifications for cast-iron water pipes of 36 ins. diameter. no place, 1862. 6 pp., 14 x 9, pap. no title-page.

640 ——Specifications for completing the lower section of Reservoir No. 3 of the Jersey City Water-Works. unpaged, 14 x 9, pap. no title-page.

67 ——Tariff of rates, and regulations for the use of the Passaic water; also rules regulating the plumbing of houses and tapping of sewers. Jersey City, 1871. 12 pp., 8 x 5, pap.

67*a* ——Same. N. Y., 1879. 19 pp., 9 x 6, pap.

498 ——Same. Jersey City, 1867. 10 pp., 8 x 5, b. p.

70 **JOHNSTOWN, N. Y.** Annual report of the Board of Water Commissioners; 1st-2d; 1878-80. Johnstown, 1879-80. 2 v., 9 x 6, pap.

71 ——Report made to the President and Board of Trustees of the Village of Johnstown, upon the water-works question, Sept., 1877. P. H. Baermann. Johnstown, 1877. 24 pp., 9 x 6, pap.

886 ——Specifications for construction of reservoir on Cork Center Creek, and conduit line to Johnstown, N. Y. Johnstown, 1894. 45 pp., 9 x 6, pap.

221 **JOLIETTE, QUE.** Reglements, Nos. 70 et 79, pour autoriser Joseph Ulric Foucher, marchand de la Ville de Joliette, à construire un aquedec en bois (ou en fer) pour l'approvisionnement d'eau de la dite Ville de Joliette, et pour déterminer les conditions auxquelles tel privilége lui sera ainsi accordé. Joliette, 1878. 16 pp., 8 x 5, pap.

KALAMAZOO, MICH. Annual reports of the Board of Trustees. (See Ok10-2.1.)

KANSAS CITY, MO. Annual reports of the Water Commissioners. (See Ok15-2.1.)

992 ——Drawings of various portions of the Water-Works of Kansas City. F. E. Sickels. no place, no date. 5 sheets, various sizes, pap.

294 ——Report of Commission of Hydraulic Engineers, to the Board of Public Works. M. L. Holman, G. H. Benzenberg and Charles Hermany. Kansas City, 1891. 23 pp., 9 x 6, pap. no title-page.

185 ——Report of the Chief Engineer and Committee of Construction, on the water-works, constructed by the National Water-Works Co. at Kansas City, Missouri, for the year 1874, and up to Apr. 15th, 1875. Kansas City, 1875. 96 pp., pl., 9 x 6, b. p.

298 ——Report on the condition of the Kansas City Water-Works; made Apr. 16th, 1881, to the Common Council. Henry Flad, T. J. Whitman and Moses Lane. Kansas City, 1881. 35 pp., 9 x 6, pap.

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880 **KINGSTON, ONT.** Specifications for furnishing material and constructing a 24-in. steel plate rivetted pipe with flexible joints, and for laying the same in the Harbour at Kingston, Ont. no place, 1890. unpaged, 14 x 8, pap. no title-page.

858 **KIRKWOOD, ILL.** Specifications for the Water-Works of the Village of Kirkwood, Ill. C. F. Sturtevant. Bolivar, Mo., 1894. 16 pp., 8 x 4, pap.

LAFAYETTE, IND. Annual reports of the Superintendent of Water-Works. (See Ol10-2.1.)

72 ——Rules and regulations for the government and protection of the Lafayette Water-Works, together with the tariff of water rates. no place, 1877. 8 pp., 9 x 6, pap. no title-page.

344 **LAMBERTVILLE, N. J.** Annual meeting: A report of the Directors of the Lambertville Water Co. to the Stockholders; 1st-9th; 1878-86. Lambertville, 1878-86. 9 v., 9 x 6, pap.

374 **LAWRENCE, MASS.** Annual report of the Water Board to the City Council; 1st-7th, 10th; 1876-82, '85. Lawrence, 1877-86. 8 v., 9 x 6, pap.

951 ——Contract and specifications for a distributing reservoir. no place, 1873. 47 pp., 11 x 8, pap.

950 ——Contract and specifications for furnishing stone for the distributing reservoir. no place, 1874. 18 pp., 11 x 8, pap.

949 ——Contract and specifications for furnishing water pipes and special castings. no place, 1874. 21 pp., 11 x 8, pap.

952 ——Contract and specifications for laying water pipe. no place. 1874. 35 pp., 11 x 8, pap.

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704 ——The Lawrence, Mass., filter. J. W. Hill. no place, 1895. pp. 567-569, 10 x 7, pap. no title-page.

373 ——Quarterly report of the Water Commissioners to the City Council; 1st. 4th-7th, 10th-11th. Lawrence, 1873-76. 6 v., 9 x 6, pap.

368 ——Report of the Committee on Water, on proposed water-works at Lawrence, Mass. Lawrence, 1872. 55 pp., 9 x 6, pap.

369 ——Report of the Joint Special Committee on Water Supply. Lawrence, 1871. 11 pp., 9 x 6, pap.

367 ——Report of the Joint Standing Committee on Water-Works, on the examination of the reports and estimates of the Water Commissioners; made to the City Council. Lawrence, 1875. 60 pp., map, 9 x 6, pap.

372 ——Report on the trial of duty and capacity of the pumping engines. W. E. Worthen, J. C. Hoadley and J. P. Davis. N. Y., 1876. 43 + 4 pp., 5 pl., 9 x 6, pap.

350 **LEBANON, PA.** Report to the Town Council upon a water supply for Lebanon. H. P. M. Birkinbine. Lebanon, 1870. 33 pp., 9 x 6, pap.

183 **LEEDS, MASS.** Report of the Committee on Water Supply of Northampton, Mass., on the best method of supplying Northampton and Florence with pure water. Note: Water supplied by the Northampton Water-Works. Northampton, 1870. 21 + 1 pp., 9 x 6, b. p.

1019 **LEICESTER, ENG.** Specifications for iron socket pipes and other pipe castings, for the Leicester Water-Works. Leicester Water-Works Co. no place, 1847. 6 + 2 pp., 13 x 8, b. p. no title-page.

74 **LEOMINSTER, MASS.** Annual reports of the Water Board; 6th-10th; 1878-82. Leominster, 1878-82. 5v., 9 x 6, pap.

552 **LILLE, FRANCE.** Ville de Lille: Établissement de la distribution d'eau: Rapports, avec pièces à l'appui. Masquelez. Paris, 1871. 2 v., 10 pl., map, 10 x 6, (atlas 15 x 12), ½ cl.

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641 **LITTLE FALLS, N. Y.** Proposals, contract and specifications for furnishing vitrified salt-glazed clay water pipe. no place, 1886. 18 pp., 9 x 6, pap.

328 **LIVERPOOL, ENG.** Annual report of the Engineer of the Water Committee as to the progress of the works; 1886, '99. Note: Report for 1899 contains a history of the works. Liverpool, 1886-1900. 2 v., il., maps, 9 x 6, pap., cl.

618 ——Liverpool Water-Works. C. H. Beloe. ed. 3. Lond., 1875. 39 pp., il., 8 x 5, pap.

611 ——Map of the South Lancashire Lakes and Liverpool Water-Works at Rivington. John Whewell. Liverpool, no date. sheet, 28 x 24, pap.

530 ——On the systems of constant and intermittent water supply and the prevention of waste, with special reference to the restoration of constant service in Liverpool. G. F. Deacon. Lond., 1875. 86 pp., 6 pl., 8 x 5, pap.

622 ——Report as to the rainfall and stock of water at Rivington. Joseph Parry. Note: Report to the Water Committee of the Town Council. Liverpool, 1885 4 pp., 9 x 6, pap.

609 ——Report as to the Vyrnwy masonry dam. G. F. Deacon. Note: Report to the Water Committee. Liverpool, 1885. 36 pp., 10 pl., 9 x 6, pap.

476 ——Report from the Select Committee of the House of Lords appointed to inquire into the circumstances attending the employment of Joseph Byrne, Joseph Hinde, and Duncan M'Arthur and others, in procuring signatures to a petition purporting to be a petition of rate-payers of the Borough of Liverpool against the Liverpool Corporation Water-Works Bill: together with the minutes of evidence. Great Britain-Select Committee on the Liverpool Corporation Water-Works Bill. no place, 1850. 4 + 69 pp., 13 x 8, b. p.

476 ——Report from the Select Committee of the House of Lords; together with the minutes of evidence taken before the said Committee, 1850. Note: Relating to the validity of the petition against the Liverpool Corporation Water-Works Bill, presented to the House of Lords, June 17th, 1850. no place, 1850. 70 pp., 13 x 8, b. p.

566 ——Report of the Borough and Water Engineers, as to the prevention of waste of water, restoration of constant service and waste-water meters. Liverpool, 1873. 17 pp., 9 x 6, pap.

329 ——Report of the Special Sub-Committee of the Water Committee; 1st-2d; 1877-78. Contents: Report of the Borough and Water Engineer on the Haweswater and Vyrnwy schemes. Analyses, by Dr. J. C. Brown, of samples of water from proposed new sources, and from deep bore holes, Liverpool, 1877-78. 2 v., maps, tab., 9 x 6, pap.

567 ——Report of the Water Engineer to the Parliamentary Sub-Committee of the Water Committee, on extension of works. Liverpool, 1865. 10 pp., 3 pl., 9 x 6, pap.

——Report of the Water-Works Engineer, on extension of water supply and new works. Liverpool, 1866. 34 pp., map, 9 x 6, b. p. Cb-211, p. 553.

612 ——Report on the present drought and on possible savings in the consumption of water. Joseph Parry. Liverpool, 1885. 22 pp., 9 x 6, pap.

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——Report on the proposed supply of water to Liverpool, from Bala Lake in North Wales. Robert Rawlinson. Lond., 1866. 32 pp., maps, 8 x 5, b. p. Ec-20, p. 267.

201 ——Report on the supply of water to the Town of Liverpool. Robert Stephenson. Lond., 1850. 89 pp., pl., 12 x 9, ¾ cf.

382 ——Report on the Vyrnwy Water-Works. A. H. Holme. Liverpool, 1886. 11 pp., 9 x 6, pap.

——The Vyrnwy Dam of the Liverpool Water-Works. G. W. Rafter. 1897. (See Dc-967, p. 9.)

397 ——Vyrnwy masonry dam: Report. Andrew Clarke. Liverpool, 1886. 36 pp., il., 9 x 6, pap.

610 ——Vyrnwy masonry dam: Report. Russel Aitken. Liverpool, 1886. 20 pp., 3 pl., 9 x 6, pap.

608 ——Waste-water meter recently patented by the Borough and Water Engineer: Report. F. J. Bramwell. Note: Report to the Water Committee of the Town Council. Liverpool, 1874. 11 pp., 9 x 6. pap.

345 **LOCKPORT, N. Y.** Prospectus of the Lockport Water Supply Co. Buffalo, 1886. 23 pp., maps, 9 x 6, pap.

73 **LOGANSPORT, IND.** Semi-annual reports of the Superintendent of Water-Works; 1st-2d; 1877. Logansport, 1878. 1 v., 8 x 6, pap.

211 **LONDON, ENG.** Act to make better provision respecting the supply of water to the Metropolis. Great Britain-Parliament. (15th and 16th Victoriæ, cap. 84.) Lond., 1865. pp. 861-870, 13 x 8, pap.

——Copies of further reports of the several Metropolitan Water Companies, in continuation of those presented to the House of Commons in session; 1854. Southwark and Vauxhall Water Co. and others. no place, 1855. 5 pp., 13 x 9, b. p. Ec-153, p. 243.

557 ——Experimental inquiry concerning the relative power of, and useful effect produced by, the Cornish, and Boulton and Watt pumping engines, and cylindrical and waggon-headed boilers. Thomas Wicksteed. Note: Tests of engines erected at the works of the East London Water Co. Lond., 1841. 8 + 34 pp., 7 tab., 11 x 9, ¾ ro.

558 ——Explanation of the plates of the Cornish, and Boulton and Watt engines, erected at the East London Water-Works, Old Ford. Thomas Wicksteed. Lond., 1842. 2 v., pl., 11 x 9 (pl., 28 x 22), ¾ ro., pap

433 ——Exposition of a plan for a Metropolitan water supply; shewing that the Thames at Maple-Durham is the most eligible source from which a supply of pure soft water can be brought for the inhabitants of London and its suburbs. L. D. B. Gordon and Charles Liddell. Lond., 1849. 44 pp., 9 x 6, b. p.

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588 ——Minutes of evidence taken before the Committee, Aug., 1851, May, June, 1852. Great Britain-Select Committee on the Metropolis Water Supply Bill. no place, 1851-52. 2 v., 13 x 9, ½ sh.

600 ——Minutes of evidence taken before the Royal Commission on Water Supply, of Great Britain, Feb., 1867, to Dec., 1868. Lond., 1869. 2 v., pl., maps, 13 x 9, cl.

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385 ——Report and papers of suggestions on the proposed gathering grounds for the supply of the Metropolis from the soft-water springs of the Surrey Sands; addressed to the General Board of Health. William Napier. Lond., 1851. 74 pp., 8 x 5, pap.

908 ——Report from the Select Committee of the House of Lords appointed to inquire into the supply of water to the Metropolis, and to report thereon to the House; with the minutes of evidence taken before the Committee, and an appendix. Great Britain-Select Committee on the Metropolis Water Supply. no place, 1840. 3 + 100 pp., 13 x 8, b. p.

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433 ——Report of the Provisional Directors of the London Spring Water Co., to the Shareholders and the public, with the financial statement, and Mr. Hope's opening speech before the Parliamentary Committee. no place, 1852. 38 pp., 9 x 6, b. p.

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888 ——Return of daily quantities of water pumped by the Grand Junction Water Co., from 1857 to '59. no place, 1859. 5 pp., 12 x 9, pap. no title-page.

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——Water supply of the Metropolis. Great Britain-Rivers Pollution Commission (1868). 1874. (See Ee-87, v. 6, p. 235.)

75 **LONDON, ONT.** Annual report of the Board of Water Commissioners; 1st, 3d-5th, 8th; 1879, '81-83. London, Ont., 1879-86. 5 v., 9 x 6, pap.

76 ——London Water-Works Acts. London, Ont., 1878. 87 pp., 9 x 6, pap.

77 ——London Water-Works, schedule of rates and by-laws. London, Ont., 1878. 15 pp., 9 x 6, pap.

78 ——Statement of receipts and expenditures of the London Water-Works for the eleven months ending Nov. 30th, 1880. no place, 1880. 8 pp., 8 x 5, pap.

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796 **LOUISVILLE, KY.** Advertisement and specifications; with blank proposal, contract, and bond, for the construction of Crescent Hill Reservoir. Louisville, 1876. 69 pp., 11 x 9, pap.

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468 ——Annual report of the President and Directors of the Louisville Water Co. to the Stockholders; 10th-29th; 1867-86. Louisville, 1868-87. 20 v. in 2, 9 x 6, pap.

464 ——Same; 1st-12th; 1858-69. 12 v., 9 x 6, b. p.

464 ——Charter, by-laws, etc., of the Louisville Water Co. Louisville, 1870. 27 pp., 9 x 6, b. p.

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465 ——Letter of the Mayor to the General Council, submitting a report on water supply. no place, 1866. 8 pp., 9 x 6, b. p. no title-page.

——Report on the investigations into the purification of the Ohio River at Louisville, Ky.; made to the President and Directors of the Louisville Water Co. G. W. Fuller. 1898. (See Db-14.)

468 ——Rules and regulations governing the introduction, supply and consumption of water from the Louisville Water Co. Louisville, 1875. 16 pp., 9 x 6, b. p.

398 **LOWELL, MASS.** Annual report of the Board of Water Commissioners to the Joint Standing Committee of the City Council on Water-Works; 1st-3d; 1870-72. Lowell, 1871-73. 3 v., 9 x 6, pap.

399 ——Annual report of the Water Board of the City Council; with reports of the Superintendent, and City Engineer; 1st-14th, 17th-19th, 21st-27th; 1873-86, '89-91, '98-99. Lowell, 1874-1900. 24 v., il., pl., 9 x 6, pap.

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798 ——Contract and specifications for building a brick supply conduit for the Lowell Water-Works. no place, 1870. 18 pp., 11 x 8, pap.

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800 ——Contract and specifications for building filtering gallery, gate chamber, and river connection. no place, 1871. 29 pp., 11 x 8, b. p.

800 ——Contract and specifications for cast-iron coated water pipes and special castings for Lowell Water-Works. no place, 187-. 26 pp., 11 x 8, b. p.

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800 ——Contract and specifications for laying pipe conduit, force main and distributing main for Lowell Water-Works. no place, 1871. 33 pp., 11 x 8, b. p.

484 ——Letter to the voters of the City of Lowell upon the subject of the introduction of a water supply for the city. J. B. Francis. Lowell, 1869. 7 pp., 9 x 6, b. p. no title-page.

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484 ——Report of the Joint Standing Committee on Water-Works; together with the report of Joseph P. Davis, Engineer of Lowell Water-Works, upon various schemes for supplying the City of Lowell with water. Lowell, 1870. 24 pp., 9 x 6, b. p.

708 ——Report upon the sanitary condition of the water supply of Lowell, Mass.; presented to the Water Board of Lowell, Apr. 10th, 1891. W. T. Sedgwick. Lowell, 1891. 58 pp., 9 x 6, pap.

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736 ——Test of the fire system belonging to the Proprietors of the locks and canals, made in 1897 at Lowell, Mass. Lowell, 1897. 42 pp., il., pl., map, 9 x 6, pap.

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587 ——Plan of engine of Lynchburg City Water-Works. sheet, 8 x 21, pap. no title-page.

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443 ——Report on supplying the City of Lynn with pure water; made to the Lynn Aqueduct Co. C. L. Stevenson. Bost., 1864. 71 pp., 8 x 5, b. p.

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200 ——Trial of Lynn pumping engines. no place, 1873. 7 v., tab., 13 x 16, bds. no title-page. manuscript.

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80 **MADISON, WIS.** Annual report of the Board of Water Commissioners; together with reports of Superintendent and Secretary; 3d; 1885. Madison, 1885. 1 v., 9 x 6, pap.

MADRAS, INDIA. Water-works of Indian cities. L. D'A. Jackson. 1875. (See Da-19, Pt. 2, p. 99.)

219 **MALDEN, MASS.** Reports of the Water Commissioners and Water Registrar; 1873–75. Bost., 1874–75. 3 v., 9 x 6, b. p.

81 ——Reports of the Water Commissioners, Water Registrar and Superintendent; 1876–79, '81. Bost.; 1876–82. 5 v., 9 x 6, pap.

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977 ——Plans and sections of water-works extension, and improvements of streets. City Surveyor. Manchester, 1862. 25 pl., 26 x 19, pap.

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180 ——Same; 5th–10th, 13th, 15th–16th; 1876–81, '84, '86–87. Manchester, 1877–88. 9 v., 9 x 6, pap.

435 ——Preliminary report on the water supply for the City of Manchester; made to the Directors of the City Aqueduct Co. J. B. Sawyer. Manchester, 1869. 65 pp., 8 x 5, b. p.

189 ——Report on sources of water supply, with estimates of cost. J. T. Fanning. Manchester, 1872. 43 pp., pl., map, 8 x 5, b. p.

686 ——Water pipes and appendages. no place, 1872. 47 pp., 10 x 8, pap.

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84 **MANSFIELD, OHIO.** Annual report of the Trustees of the Water-Works; together with the reports of the Superintendent, Chief Engineer and Secretary; 2d; 1874. Mansfield, 1874. 1 v., 9 x 6, pap.

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841 ——Promenade sur les bords du Canal de Marseille. E. de Saintferréol. Nîmes, 1854. 360 pp., map., 9 x 6, pap.

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MASSACHUSETTS. Act relative to the Metropolitan Water Board; legislation of 1898. 1899. (See Dc-505, Annual report, 1898, p. 215.)

——Act to provide for a Metropolitan water supply; passed 1895. 1897. (See Dc-505, Annual report, 1896, p. 85.)

505 ——Annual report of the Metropolitan Water Board; 2d–5th; 1896–99. Bost., 1897–1900. 4 v., pl., maps, 9 x 6, cl.

229 ——Report of the State Board of Health on water supply and sewerage, 1887–90. Bost., 1890. 2 v., pl., maps, 9 x 6, cl.

——Water supply, drainage and sewerage of the State from the sanitary point of view. Frederick Winsor. 1876. (See Eb-34, p. 175.)

881 **MASSACHUSETTS AGRICULTURAL COLLEGE.** Contract and specifications for furnishing cast-iron water pipes and specials. Amherst, 1897. 13 pp., 11 x 8, pap.

886 ——Contract and specifications for laying water pipes and constructing reservoir. no place, 1897. 24 pp., 10 x 8, pap.

87 **MEDFORD, MASS.** Annual report of the Water Commissioners; 3d–10th; 1872–79. Bost., 1873–80. 8 v., 9 x 6, pap.

88 **MELROSE, MASS.** Report of the Board of Water Commissioners; 1873, '77–81. Bost., 1873–82. 6 v., 9 x 6, pap.

187 ——Same; 1869–76. 5 v., 9 x 6, b. p.

185 **MEMPHIS, TENN.** Annual report of the Board of Directors of the Memphis Water Co., to the Stockholders; 1873. Memphis, 1873. 1 v., 9 x 6, b. p.

539 ——Final report of the Engineers selected to test the pumping engines and boilers furnished by Henry R. Worthington, New York, for the Artesian Water Co., Memphis, Tenn.; test made Jan. 10th to 14th, 1891. J. J. DeKinder, A. S. Caldwell and C. B. Brush. N. Y., 1891. 18 pp., pl., 10 x 7, pap.

89 ——Report of duty test of Gaskill's compound, condensing, vertical pumping engines, at Memphis, Tenn., Jan., 1882, to the Memphis Water Co. J. W. Hill. New York, 1882. 15 pp., pl., 9 x 6, pap.

437 ——Report of the Chief Engineer of the Board of Water-Works and Sewerage Commissioners, upon a public water supply and a system of drainage for the City of Memphis. Louisville, 1868. 110 pp., 9 x 6, b. p.

538 ——Report of the Water Committee on a public water supply for the City of Memphis, Dec., 1886. Memphis, 1887. 60 pp., pl., 9 x 6, pap.

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——Message of the Mayor, and Annual reports of the Departments. (See Om30-2.1.)

92 **MIDDLETOWN, CONN.** Annual report of the Board of Water Commissioners; 1874, '84–85. Middletown, 1875–85. 3 v., 9 x 6, pap.

——Annual reports of the Board of Water Commissioners. (See Om35-2.1.)

91 ——Semi-annual report of the Board of Water Commissioners; 3d; 1866. Middletown, 1867. 1 v., 8 x 5, pap.

888 **MILTON, PA.** Specifications of the Milton Water Co. Milton, 1883. 24 pp., 9 x 6, pap.

MILWAUKEE, WIS. Annual reports of the Board of Public Works. (See Om40-4.1.)

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1010 ——Contract and specifications for laying cast-iron water pipes, stop-cocks and other appurtenances. no place, no date. 41 pp., 9 x 8, pap.

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98 ——Report on the Milwaukee Water-Works, to the Mayor and to the Committee on Water-Works, Oct. 28th, 1868. E. S. Chesbrough. Milwaukee, 1868. 27 pp., 9 x 6, pap.

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1009 ——Specifications for the construction of a distributing reservoir. no place, no date. 38 pp., 9 x 8, pap.

827 ——Specifications for the construction of Section, No. 1 of the new water-works intake at North Point, City of Milwaukee, by the City Engineer. Milwaukee, 1890. 20 pp., 9 x 6, pap.

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——Annual reports of the City Engineer. (See Om45-8. 1.)

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404 ——Ordinance concerning the water-works of the City of Minneapolis, and the duties of the Superintendent of the same: approved May 1st, 1878. Minneapolis, 1878. 12 pp., 9 x 6, pap.

825 **MINONK, ILL.** Specifications for brick tower and steel tank for the City of Minonk, Ill. no place, 1896. 10 pp., 8 x 5, pap.

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266 **MONTREAL, QUE.** Annual report of the Superintendent of the Water-Works Department; 1868-70, '72-85, '87-88. Montreal, 1869-89. 19 v., 9 x 6, pap.

436 ——Same; 1862-67. 6 v., 9 x 6, b. p.

443 ——Same; 1871. 1 v., 8 x 5, b. p.

270 ——General description of the Montreal Water-Works. no place, no date. 1 p., il., 24 x 18, pap.

434 ——General specifications and form of proposition for aqueduct, and masonry connected therewith. Montreal, 1853. 5 + 1 pp., 15 x 10, b. p.

——History of the Montreal Water-Works. (See Om55-2.1, Report, 1897.)

423 ——Letter of the Chief Engineer in reply to resolution of Council for information respecting water-works. Montreal, 1856. 15 pp., 8 x 5, b. p.

436 ——Letters of "Old Montreal" to the Mayor, and "Vandewater" to the *Montreal Gazette*, on the water-works and water supply. Montreal, 1868. 16 pp., 9 x 6, b. p.

272 ——Manuscript report to the Water Committee relating to the water supply of Montreal. E. P. Cooke and E. W. Plunkett. Montreal, 1869. 14 pp., 13 x 8, pap.

436 ——Montreal Water-Works: A reply to Cooke and Plunkett's pamphlet. W. J. McAlpine. Montreal, 1870. 8 pp., 9 x 6, b. p.

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901 ——Report of the Superintendent of the Water-Works, on the proposed enlargement of the Montreal Water-Works; together with an historical sketch of the works up to the present date; in accordance with instructions from the Water Committee. Montreal, 1873. 2 v., 8 x 5, (atlas 10 x 6), pap.

423 ——Report of the Water Committee; submitting reports of the Engineers on the new water-works. Note: Contains report of the Chief Engineer, Thomas C. Keefer, and reports of the Consulting Engineers, John B. Jervis and W. J. McAlpine. Montreal, 1854. 92 pp, 8 x 5, b. p.

423 ——Report of the Water-Works Examination Commission. Montreal, 1855. 11 pp., 8 x 5, b. p.

429 ——Report on a preliminary survey for the water supply of the City of Montreal. T. C. Keefer. Montreal, 1852. 26 pp., 8 x 5, b. p.

436 ——Report on the erection of a new steam-pumping apparatus for the Montreal Water-Works. Samuel Risley. Montreal, 1869. 8 pp., 9 x 6, b. p.

423 ——Report on the project for conducting the tail-race water of the Montreal Water-Works from the wheel-house to Hochelaga Bay. T. Trudeau and John Cliff. Montreal, 1857. 10 pp., 8 x 5, b. p.

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436 ——Report on the Water-Works of the City of Montreal; accompanied by a report of James B. Francis on the same subject. Walter Shanley. Montreal, 1868. 24 pp., 9 x 6, b. p.

——Reports on the corporation accounts, and reports of the Chiefs of Departments. (See Om55-2.1.)

271 ——Rules and regulations for the employees in the Department of the Montreal Water-Works. Montreal, 1873. 51 pp., 5 x 4, cl.

——Special Report of the Water Committee, and of the Superintendent of Water-Works, upon the difficulties experienced during the winter, 1865–66, in supplying the city with water. 1866. (See Dc-436, p. 265.)

538 ——Specifications for excavation, masonry, crib-work and fencing for the proposed new aqueduct of the Montreal Water-Works: General descriptions and conditions. no place, 1870. unpaged, 22 x 10, pap. no title-page.

642 ——Specifications for the excavation, masonry, crib-work, bridging and fencing for the tail-race of the Montreal Water-Works. no place, 1862. 16 pp., 9 x 6, pap.

234 ——Water supply and the Hydraulic Company question. ed. 2, enl. Note: Relates to the proposed water supply for Montreal, by the St. Louis Hydraulic Co. Montreal, 1868. 52 pp., 9 x 6, pap.

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NASHVILLE, TENN. Annual reports of the Treasurer and other city officers. (See On10-2.1.)

750 ——Cast-iron water pipe for force main: Contract, specifications, proposal and instructions to bidders. no place, 1885. 8 pp., 14 x 8, pap.

95 **NATICK, MASS.** Annual report of the Board of Water Commissioners; 2d-5th; 1876–79. Natick, 1876–79. 4 v., 9 x 6, pap.

442 **NEW BEDFORD, MASS.** Account of the method adopted to repair a breach in the earthen dam of the storing reservoir of the New Bedford Water-Works. W. J. McAlpine. 16 pp., 9 x 6, b. p. no title-page.

299 ——Annual report of the Water Board to the City Council; 1st–12th, 14th, 16th; 1870–81, '84, '86. New Bedford, 1871–86. 14 v., 9 x 6, pap.

908 ——Contract and specifications for distributing reservoir. no place, 1867. 26 pp., 10 x 8, pap.

907 ——Contract and specifications for storing reservoir, brick conduit, and receiving reservoir. no place, 1866. 65 pp., 10 x 8, pap.

857 ——Further water supply: Contract and specifications for 48-in. force main, by the Water Board, Mar., 1896. no place, 1896. 79 pp., 6 x 4, pap.

435 ——Ordinance establishing the water rates of the New Bedford Water-Works. no place, 1869. 6 pp., 9 x 5, b. p. no title-page.

435 ——Ordinance to provide for the establishment of the Acushnet Water Board, and for the care and management of the New Bedford Water-Works. no place, 1869. 10 pp., 9 x 5, b. p. no title-page.

443 ——Report made to the Common Council of the City of New Bedford on supplying the city with water. W. J. McAlpine. no place, 1865. 96 pp., 8 x 6, b. p.

297 ——Report of a trial of the pumping engine of the water-works, in the City of New Bedford, Mass. J. C. Hoadley and others. New Bedford, 1870. 19 pp., 9 x 6, pap.

435 ——Report of the Joint Special Committee on the Introduction of Fresh Water. New Bedford, 1862. 26 pp., 9 x 5, b. p.

435 ——Report of the Joint Special Committee on the Introduction of Fresh Water, with the Act of the Legislature authorizing the same. New Bedford, 1864. 41 pp., map, 9 x 5, b. p.

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442 ——Review of the McAlpine pumping machine, recently constructed for the New Bedford Water-Works; with an introduction by William J. McAlpine. R. E. Briggs. N. Y., 1868. 23 pp., 9 x 6, b. p.

912 ——Specifications and contract for pump well, culverts, etc. no place, 1867. 28 pp., 10 x 8, pap. no title-page.

909 ——Specifications for cast-iron pipes. no place, no date. 15 pp., 10 x 8, pap. no title-page.

911 ——Specifications for furnishing all materials and doing all of the work to fully complete an engine house for the water-works of the City of New Bedford. E. D. Lindsey. New Bedford, 1868. 12 pp., 9 x 8, pap.

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910 ——Specifications for the construction and erection of a condensing, beam, pumping engine and two boilers for the New Bedford Water-Works. no place, no date. 7 pp., 10 x 8, pap. no title-page.

405 **NEW BRIGHTON, N. Y.** Report of the Health Committee of the Richmond County Good Government Club on the water supply of New Brighton and Port Richmond. no place. 1895. 23 pp., 9 x 6, pap. no title-page.

95 **NEW BRIGHTON, PA.** Water rates adopted by the New Brighton Water-Works Co. New Brighton. 1879. unpaged. 7 x 6, pap.

97 **NEW BRITAIN, CONN.** Annual report of the Water Commissioners: 20th-23d; 1877–80. New Britain. 1877–80. 4 v., 9 x 6, pap.

219 ——Same: 17th-19th: 1874-76. 3 v., 9 x 6, b. p.

99 **NEW BRUNSWICK, N. J.** Annual report of the Water Commissioners to the Common Council: 4th-6th: 1876-78. New Brunswick. 1877-79. 3 v., 9 x 6, pap.

197 ——Same: 1st: 1873-74. 1 v., 9 x 6, b. p.

191 ——Same: 21-31: 1874-75. 1 v., 9 x 6, b. p.

98 ——Rules, regulations and rates for the government of water takers and plumbers, and for the protection of the works. New Brunswick. 1867. 16 pp., 6 x 4, pap.

411 **NEW HAVEN, CONN.** Annual report of the Board of Directors of the New Haven Water Co. to the Stockholders: 13th-15th: 1874-76. New Haven. 1875-77. 3 v., 9 x 6, pap

906 ——Same: 1st-12th: 1863-74. New Haven. 1872-74. 12 v., 8 x 5, b. p.

908 ——Charter of the New Haven Water Company: with amendments. Connecticut General Assembly. New Haven. 1874. 15 pp., 8 x 5, b. p.

698 ——Contract between the City of New Haven, and the New Haven Water Co. no place. 1881. 8 pp., 9 x 6, pap.

410 ——Report of the Joint Special Committee on Water, to the Common Council, July, 1881. New Haven. 1881. 19 pp., 9 x 6, pap.

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——Reports of the Committees, concerning the purchase of the New Haven Water-Works: Water contract. (See On20-2.1, Annual book, 1881, p. 336.)

240 **NEW JERSEY.** Proposed act for furnishing state water supply to the municipalities of New Jersey; introduced in the Assembly, Mar. 7th, 1893, at the request of the Board of Trade of Jersey City. O'Brien. no place, no date. 48 pp., 9 x 6, mor.

——Public water supply systems of New Jersey classified by sources. New Jersey-Geological Survey. 1894. (See Yh-25, v. 3, p. 315.)

416 ——Report of Commissioners of State Water Supply: 2d-3d; Jan., Mar., 1884. Trenton. 1883-84. 2 v., 9 x 6, pap.

100 **NEW LONDON, CONN.** Annual report of the Board of Water Commissioners: 3d-11th: 1874-82. New London. 1874-82. 9 v., 9 x 6, pap.

962 ——Reservoir dam. New London-Board of Water Commissioners. (Contract No. 2.) no place. 1872. 55 pp., 11 x 8, pap.

963 ——Water pipes and appendages. New London-Board of Water Commissioners. (Contract No. 1.) no place. 1871. 32 pp., 11 x 8, pap.

102 **NEW ORLEANS, LA.** Annual report of the New Orleans Water-Works Co. to the Board of Directors: 1879-82. New Orleans. 1879-82. 4 v., 9 x 6, pap.

101 ——Report of the Water-Works and Public Buildings Department; 1871, '77. New Orleans. 1871-77. 2 v., 9 x 6, pap.

NEW SOUTH WALES—DEPARTMENT OF PUBLIC WORKS. Report of the Engineer-in-Chief, on water-works. 1892. (See De-115, Annual report of the Public Works Department.)

631 **NEW YORK, N. Y.** Act to provide for supplying the City of New York with pure and wholesome water, passed May 2d, 1884. 6 pp., 8 x 5, b. p. no title-page.

629 —— Acts of the Legislature of the State, and ordinances and resolutions of the Common Council; with the rules and regulations of the Croton Aqueduct Board in relation to the subject of the introduction, supply, and the use of Croton water in the City of New York, from 1833 to 1861. N. Y., 1861. 110 + 6 pp., 8 x 5, b. p.

631 ——Amendment, by the Joint Finance Committee of the Board of Aldermen, to the law relating to the creation of "the water stock of the City of New York," May 1835. pp. 631-634, 8 x 5, b. p. no title-page.

444 ——Annual report of the Croton Aqueduct Board: 1843-44. N. Y., 1844. 1 v., 9 x 6, b. p.

627 ——Annual report of the Croton Aqueduct Department made to the Common Council: 4th, 11th, 13th-21st: 1852, '59, '61-69. N. Y., 1852-70. 11 v. in 6, 9 x 6, cl.

432 —— Same: 1st: 1849. 1 v., 9 x 6, b. p.

629 ——Same: 3d-5th, 7th, 9th, 11th, 13th: 1851-53, '55, '57, '59, '61, 7 v., 8 x 5, b. p.

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454 ——Same; 10th, 15th-16th; 1858, '63-64. 3 v., 8 x 5, b. p.

——Annual reports of the Department of Public Works. (See On25-8.1.)

651 ——Answer of A. W. Craven, Chief Engineer, Croton Aqueduct, to charges made by Fernando Wood, Mayor. N. Y., 1860. 52 pp., 9 x 6, pap.

667 ——Case relating to the contract, of Nov. 10th, 1838, for the construction of Section 96, of the Croton Aqueduct. N. Y., 1855. 259 pp., 10 x 8, pap. no title-page.

319 ——Catalogue of the illustrations of the water supply of the City of New York; written for the Board of General Managers of the Exhibit of the State of New York at the World's Columbian Exposition. Edward Wegmann, Jr. N. Y., 1893. 68 pp., 7 x 5, pap.

660 ——Circular, from the Chief Engineer of the New York Water-Works, to the Resident Engineers on the Croton Aqueduct. N. Y., 1837. 8 pp., 9 x 6, pap.

388 ——Communication from the Board of Health, relative to the condition of the new aqueduct, New York. Albany, 1886. 50 pp., map, 9 x 6, pap.

776 ——Contract and specification for building a reservoir and two gate-houses for high-service at Carmansville, N. Y. N. Y., 186–. unpaged, 13 x 8, pap. no title-page.

769 ——Contract and specification for new reservoir at Yorkhill. N. Y., 1857. unpaged, 14 x 8, pap. no title-page.

775 ——Contract and specifications for building the upper portion of the dam and appurtenances for the storage reservoir near Boyd's Corners. no place, 1869. 13 pp., 13 x 8, pap. no title-page.

671 ——Contract drawings for the Croton Aqueduct. no place, 1885. 3 v., pl., 24 x 20, ¾ ro., pap. no title-page.

771 ——Contract for furnishing and laying a 48-in. cast-iron conduit pipe from Kensico to a point between Hartsdale and Scarsdale, Westchester Co., N. Y. N. Y., 1881. 24 pp., 14 x 8, pap.

773 ——Contract for furnishing stop-cocks, stop-cock boxes, and hydrants. N. Y., 1881. 14 pp., 14 x 8, pap.

770 ——Contract for laying Croton water main. N. Y., 1881. 14 pp., 14 x 8, pap. no title-page.

668 ——Croton water supply for the City of New York: An address delivered at the opening of the new building of the New York Municipal Society, Dec. 21st, 1876; together with the resolutions then adopted. George B. Butler. N. Y., 1877. 24 pp., map, 9 x 6, pap.

667 ——Description of the Croton Aqueduct, by John B. Jervis, Chief Engineer. N. Y., 1842. 31 pp., 9 x 6, pap.

595 ——Description of the New York Croton Aqueduct. G. T. Schramke. N. Y., 1846. 60 pp., 20 pl., 13 x 10, bds.

988 ——Drawings of details of Croton Aqueduct at High Bridge and part of High Bridge. N. Y., 1877(?) 4 sheets, 18 x 40, cl. scale, 10 ft. to 1 in.

——Entire Croton water-shed above Quaker Bridge. no date. (See Qf-69.)

76b ——Form of contract for building the new Croton Dam on Croton River, at Cornell Site. N. Y., 1892. 54 pp., 11 x 8, pap.

767 ——General specifications for Quaker Bridge Dam, and appurtenances. 4 pp., 13 x 8, pap. no title-page.

594 ——Illustrations of the Croton Aqueduct. F. B. Tower. Note: Contains history of the water supply of New York. N. Y., 1843. 152 pp., 24 pl., 13 x 10, cl.

668 ——In the matter of the application of Hubert O. Thompson, as Commissioner of Public Works, to acquire certain water rights in the Towns of Mount Pleasant, North Castle, Greenburgh and White Plains, in the County of Westchester: Proceedings, Bronx River Diversion, Parcels 68 to 120. N. Y., 1888. 3 v., pl., maps, 9 x 6, sh.

840 ——In the matter of the proposed removal of 42d Street Reservoir: Memorandum in opposition thereto. N. Y., 1896. 50 pp., 9 x 6, pap.

——Law of the Common Council to instruct the Water Commissioners to proceed in the work of supplying the city with water and to create a public fund or stock to be called "the Water Stock of the City of New York," for the expenses of said work. 1835. (See Dc-681, p. 427.)

667 ——Map and contract drawings for the Croton Aqueduct. N. Y., 1885. 2 pp., 15 pl., 9 x 17, pap. no title-page.

781 ——Map of the route of the New Croton Aqueduct, present aqueduct, and Bronx River pipe line; also the water-sheds of the Croton, Bronx and Byram Rivers. no place, 1890. sheet, 14 x 37, pap.

985 ——Maps of the proposed Quaker Bridge Reservoir, and the location, elevation and sections of Quaker Bridge Dam. N. Y., 1885. 3 sheets, various sizes, cl. scale, about 715 ft. to 1 in.

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591 ——Memoir of the construction, cost, and capacity of the Croton Aqueduct, compiled from official documents; together with an account of the civic celebration of the 14th Oct., 1842, on occasion of the completion of the great work; preceded by a preliminary essay on ancient and modern aqueducts. Charles King. N. Y., 1843. 8 + 308 pp., pl., 11 x 9, cl.

655 ——Memoir of the construction of a masonry dam for a storage reservoir. J. J. R. Croes. N. Y., 1875. 6 + 81 pp., pl., 9 x 6, cl.

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659 ——New York water supply: Report on storage reservoirs in the Croton, by Isaac Newton, Chief Engineer of the Croton Aqueduct; opinion of Consulting Engineers. N. Y., 1883. 19 pp., map, 9 x 6, pap.

669 ——New York water supply: Report to Hubert O. Thompson, Commissioner of Public Works, by Isaac Newton, Chief Engineer; opinion of E. S. Chesbrough, Consulting Engineer. N. Y., 1881. 14 pp., 9 x 6, pap.

432 ——Opinion in relation to the entering upon lands, etc., for temporary purposes, in the construction of the Croton Aqueduct, the damage to be appraised either before or after the use of such lands, etc. D. B. Tallmadge. N. Y., 1837. 16 pp., 9 x 6, b. p.

662 ——Opinion of the Court of Appeals, on appeal of John C. Campbell from an order of the Supreme Court denying his application for a reversal of the proceedings of the Commissioner of Public Works in removing him from the office of Chief Engineer of the Croton Aqueduct. N. Y., 1880. 7 pp., 11 x 7, pap.

432 ——Ordinance of the Common Council, establishing a scale of water rents for the Croton Aqueduct Department. no place, 1850. 8 + 10 pp., 8 x 5, b. p. no title-page.

978 ——Photographs of the New Croton Dam, New York water supply. Coleman, Breuchaud & Coleman. no place, no date. phot., 11 x 14, cl. no title-page.

861 ——Plans and proposals presented to the New York Sinking Fund Commissioners, for an efficient fire service and for sanitary purposes, by the Metropolitan Water Co. N. Y., 1885. 27 pp., 9 x 6, pap.

976 ——Plates of details of the Croton Aqueduct. J. B. Jervis. no place, no date. pl., 39 x 26, ½ sh. no title-page.

772 ——Proposals and specifications for building a dam and appurtenances, near Boyd's Corners, Putnam County, N. Y. no place, 1866. 20 pp., 13 x 8, pap. no title-page.

766 ——Proposals for furnishing cast-iron water pipes, branch pipes and special castings. N. Y., 1881. 12 pp., 14 x 8, pap. no title page.

1000 ——Proposals for laying Croton water mains, and the necessary branches, curved pipes, and special castings in—. N. Y., 1878. 3 pp., 14 x 8, pap. no title-page.

768 ——Proposals for the New Croton Aqueduct, Sections A and B. N. Y., 1884. 2 v., 14 x 8, pap. no title-page.

656 ——Public notice as to water rates, and rules governing the use of water; also a table of the amount of water supplied per day through meters. N. Y., 1886-87. 3 pp., 10 x 8, pap. no title-page. newspaper slips.

898 ——The Ramapo Water Contract: Report of a preliminary inquiry, and action taken and proposed, for a radical investigation, Nov. 16th, 1899. Merchants' Association of New York. N. Y., 1899. 50 pp., 9 x 6, pap.

666 ——Regulations establishing a scale of water rents for the City of New York, May, 1876. N. Y., 1876. 9 pp., 9 x 6, pap.

711 ——Remarks before the Mayor and Commission, on the projects for an increased supply. W. J. McAlpine. N. Y., 1883. 8 pp, 9 x 6, pap.

713 ——Remonstrance of the Municipal Society of New York against the removal of the Murray Hill Reservoir, including a petition for the bill introduced into the Assembly by Mr. Mitchell to authorize a commission to consider the whole question of water supply and distribution. N. Y., 1880. 14 pp., pl., 9 x 6, pap.

878 ——Report made to the Comptroller of the City of New York, commenting upon statements made by William Dalton, Commissioner of the Department of Water Supply in his communication to the Board of Public Improvements, Aug. 9th, 1899, advocating the adoption of the offer of the Ramapo Water Co. E. E. McLean. N. Y., 1899. 17 pp., 9 x 6, pap. no title-page.

877 ——Report made to the Comptroller of the City of New York, on the Esopus Creek as a source of water supply by the Ramapo Water Co. G. S. Rice. N. Y., 1899. 5 pp., 9 x 6, pap. no title-page.

879 ——Report made to the Comptroller of the City of New York, upon the present condition of the water supply, with special reference to the offer of the Ramapo Water Co. to furnish water to the city. J. J. R. Croes. N. Y., 1899. 12 pp., 9 x 6, pap. no title-page.

715 ——Report of a plan for supplementing the Croton water supply to the City of New York from the Ramapo District. W. J. McAlpine. N. Y., 1882. 28 pp., map, 9 x 6, pap.

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664 ——Report of Examining Engineers, on the charges preferred against the Chief Engineer of the Aqueduct Commission. John Newton, G. S. Greene and Q. A. Gillmore. N. Y., 1886. 12 pp., 9 x 6, pap.

712 ——Report of Hubert O. Thompson, Commissioner of Public Works, to William R. Grace, Mayor of the City of New York, on proposed new aqueduct and storage reservoir for additional supply from Croton River; with detailed report of Isaac Newton, Chief Engineer of the Croton Aqueduct, and opinions of Consulting Engineers. N. Y., 1882. 8 + 63 pp., 12 tab., map, 9 x 6, pap.

714 ——Report of Isaac Newton, Chief Engineer of Croton Aqueduct, on plans proposed for storing and conveying an additional water supply to the city; opinions of the Consulting Engineers; tables of rainfall, etc.; map showing drainage area and aqueduct lines. N. Y., 1882. 63 pp., map, 12 tab., 9 x 6, pap.

681 ——Report of the Board of Assistant Aldermen; and law in relation to the loan to be made for procuring pure and wholesome water in the City of New York, Apr., 1835. no place, no date. pp. 605-611, 8 x 5, b. p.

700 ——Report of the Chief Engineer of the Aqueduct Commission, on the building of a high masonry dam on the lower part of the Croton River, Oct. 8th, 1890. N. Y., 1890. 8 pp., 11 x 7, pap.

579 ——Report of the Commissioner of Public Works to the Aqueduct Commissioners, supplementary to his report of Aug. 8th, 1883, upon plans for an additional supply of water to the City of New York; and relating to the plans, specifications and estimates for the construction of the proposed Quaker Bridge Dam. no place, 1884. 18 pp., pl., 9 x 6, pap.

680 ——Report of the Committee of the Board of Aldermen on Fire and Water, on the subject of applying to the Legislature for the passage of an Act authorizing the city to borrow a sum not exceeding two million of dollars to supply the city with water. 1888. pp. 3-8, 8 x 5, b. p. no title-page.

680 ——Report of the Committee of the Board of Aldermen on Fire and Water, on various communications and resolutions on the subject of supplying the city with water. Dec. 31st, 1831. 75 pp., 8 x 5, b. p. no title-page.

680 ——Report of the Committee of the Board of Aldermen on Fire and Water, relative to the proposition of requesting authority from the Legislature to contract a loan of two million dollars for the purpose of supplying the city with water, Dec., 1832. no place, no date. 2 pp., 8 x 5, b. p.

681 ——Report of the Committee of the Board of Aldermen on Fire and Water, to whom was referred the report of the Water Commissioners, and the documents accompanying the same, in relation to supplying the City of New York with pure and wholesome water, Mar., 1835. pp. 517-528, 8 x 5, b. p. no title-page.

681 ——Report of the Committee of the Board of Aldermen on Fire and Water, transmitting letters from D. J. Rhoads and James Seymour, relating to supplying the City of New York with water, Apr., 1834. pp. 909-915, 8 x 5, b. p. no title-page.

681 ——Report of the Committee of the Board of Aldermen on Fire and Water, upon the communication of the Water Commissioners on the introduction of water into the city; and a law appropriating money for the survey, June, 1834. pp. 73-76, 8 x 5, b. p. no title-page.

670 ——Report of the Minority of the Special Committee of the Board of Assistant Aldermen, on the subject of the ordinance creating the Aqueduct Department, and to amend the ordinance to instruct the Water Commissioners. N. Y., 1840. pp. 115-144, pl., 9 x 6, pap.

681 ——Report of the Street Committee of the Board of Aldermen, on the communication received from the Water Commissioners relative to reserving land for reservoirs, etc., Dec., 1836. pp. 543-550, 8 x 5, b. p. no title-page.

681 ——Report of the Water Commissioners; May 19th, 1834. 3 pp., 8 x 5, b. p. no title-page.

681 ——Report of the Water Commissioners, on the progress of the work of supplying the city with water; Aug., 1836. pp. 61-69, 8 x 5, b. p. no title-page.

681 ——Report of the Water Commissioners, relative to supplying the City of New York with pure and wholesome water, Nov., 1833. N. Y., 1833. pp. 357-410, pl., maps, 8 x 5, b. p.

681 ——Report of the Water Commissioners, upon the re-examination of the surveys and estimates for supplying the city with water, Feb., 1835. pp. 323-525, 8 x 5, b. p. no title-page.

681 ——Report of the Water Commissioners, upon the subject of the water supply for the city, and the necessity of an additional appropriation by the city for further surveys, May, 1834. 3 + 2 pp., 8 x 5, b. p. no title-page.

657 ——Report on a water supply for New York and other cities of the Hudson Valley; Nos. 1-2. Note: Report of J. T. Fanning, Chief Engineer of the New York & Hudson Valley Aqueduct Co. N. Y., 1881-84. 2 v., pl., map, 9 x 6, pap.

654 ——Report on Croton water, to the Health Department. Elwyn Waller. N. Y., 1861, 45 pp., pl., 9 x 6, pap.

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——Report on the Croton water-shed. C. C. Brown. 1889. (See Eg-3, Annual report, 1889, p. 189.)

658 ——Report on the plans proposed by Isaac Newton, Chief Engineer of the Croton Aqueduct. J. B. Jervis. N. Y., 1832. 18 pp., 9 x 6, pap.

709 ——Report on the projected reservoir and aqueduct for the additional water supply of New York City. W. E. Worthen. N. Y., 1884. 4 pp., map, 9 x 6, pap. no title-page.

598 ——Report to the Aqueduct Commissioners, by the President, containing reports of the Secretary and of the Chief Engineer; giving a review of the work of the Aqueduct Commission to Jan., 1895. N. Y., 1887-96. 2 v., il., pl., tab., maps, 14 x 11, cl.

631 ——Report to the Directors of the New York Water-Works Co., by the Engineer; Jan, 1826. 11 pp., 8 x 5, b. p. no title-page.

829 ——Reports of the Chief Engineer of the Aqueduct Commission, and the Chief Engineer and Consulting Engineer of the Department of Public Works, to the Aqueduct Commissioners, in relation to constructing the Quaker Bridge Dam and Reservoir. N. Y., 1886. 19 pp., map, 9 x 6, pap.

——Reports of the Department of Public Works. (See On25-8.2.)

596 ——Reports on researches concerning the design and construction of high masonry dams, in view of the proposed building of Quaker Bridge Dam; by B. S. Church, A. Fteley, and a Board of Experts appointed by the Aqueduct Commission, Mar., 1888. N. Y., 1889. 64 pp., 27 pl., 12 tab., 12 x 10, cl.

592 ——Reports relating to the Croton Aqueduct, the dry-dock at the Brooklyn Navy Yard, and the Erie Canal, from 1852 to '53. unpaged, 14 x 9, sh. no title page. manuscript.

630 ——Reports upon the subject of supplying the City of New York with water; by DeWitt Clinton and others. (City doc. No. 61.) N. Y., 1832. pp. 191-291, 8 x 5, b. p. no title-page.

437 ——Sanitary qualities of the water supply of New York and Brooklyn; with chemical analysis, by C. F. Chandler. Elisha Harris. N. Y., 1868. 16 pp., 9 x 6, b. p.

658 ——Semi-annual report of the Water Commissioners; Dec., 1848. N. Y., 1849. 1 v., 8 x 5, pap.

——Same; Dec., 1836-June, 1839. 6 v., 9 x 5, pap. Ab-2, p. 215.

——Same; Dec., 1837, Dec., '39, Dec., '41. 3 v., 8 x 5, b. p. Cfh-74, p. 509.

444 ——Same; Dec., 1839, Dec., '40, Dec., '41. 3 v., 9 x 6, b. p.

1001 ——Specification, etc., for building a storage reservoir on the Middle Branch of the Croton River, in the Town of South East, Putnam County, N. Y., near Wood's Mill. no place, no date. 18 pp., phot., 14 x 8, pap. no title-page.

1008 ——Specifications, etc., for furnishing cast-iron water pipes, branch pipes, and special castings. no place, no date. 10 pp., 14 x 8, pap.

774 ——Specifications for building gate-houses and aqueduct for the new reservoir of hydraulic masonry. N. Y., 1858. 25 pp., 13 x 8, pap.

764 ——Specifications for the construction of the New Croton Aqueduct, Sections 1 to 11. N. Y., 1884-85. 11 v., 11 x 8, pap. no title-page.

763 ——Specifications of the manner of constructing the general work of the Croton Aqueduct. N. Y., 1837(?) various pagings, 13 x 8, b. p. no title-page.

631 ——Spring water *versus* river water, for supplying the City of New York; also an examination of the Water Commissioners' Report of Nov., 1833, refuting many of the objections therein contained, and exhibiting errors in their estimates. M. Hale N. Y., 1835. 50 + 2 pp., pl., map, 8 x 5, b. p.

710 ——Standard sizes of hubs and spigots of water pipes. N. Y., 1876. pl., 28 x 25, cl.

661 ——Statement of the case relating to the contract of Nov. 10th, 1838, for the construction of Section 96 of the Croton Aqueduct. 16 pp., 9 x 6, pap. no title-page.

——Topographical map of Croton water-shed. W. E. Worthen. 1889. (See Qf-127.)

——Topographical map showing the entire water-shed of Croton River above the Croton Aqueduct Dam, also the most available sites for storage reservoirs; from minute surveys made during the years 1857 and 1858. (See Qf-144.)

597 ——Two reports on researches concerning the design and construction of high masonry dams, in view of the proposed building of Quaker Bridge Dam; by B. S. Church and A. Fteley. no place, 1887. 48 pp., pl., tab., 12 x 10, cl.

665 ——Water supply of the City of New York. Elwyn Waller. no place, 1882 (?) 7 pp., 9 x 6, pap. no title-page.

593 ——Water supply of the City of New York, 1658-1895. Edward Wegmann. N. Y., 1896. 11 + 316 pp., il., 148 pl., 12 x 10, cl.

895 ——The water supply situation in New York. J. J. R. Croes. N. Y., 1899. newspaper slips, 9 x 8, pap.

628 ——Water-waste prevention; its importance and the evils due to its neglect; with an account of the methods adopted in various cities in Great Britain and the United States. H. C. Meyer. N. Y., 1885. 70 pp., 9 x 6, cl.

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108 **NEWARK, N. J.** Act incorporating the Newark Aqueduct Board. no place, 1869. 22 pp., 9 x 6, pap.

371 ——Annual report of the Aqueduct Board; 1871, '73-90. Newark, 1872-91. 19 v., 9 x 6, pap.

364 ——Annual report of the Board of Street and Water Commissioners; 1894-96. Newark, 1895-97. 3 v., 9 x 6, pap.

363 ——Annual report of the Committee on the Department of Water, of the Board of Street and Water Commissioners; 1891-93. Newark, 1892-94. 3 v., 9 x 6, pap.

377 ——By-laws of the Aqueduct Board, adopted Jan. 14th, 1862. Newark, 1874. 11 pp., 6 x 4, pap.

379 ——*In re* the proposed dam across the Passaic River. New Jersey-Senate. Note: Notes of arguments made before a Committee of the Senate, favoring the passage of a bill permitting the erection of a dam, over the Passaic River, to prevent the pollution of the water supply of Newark and Jersey City. Newark, 1882. 51 pp., 9 x 6, pap.

380 ——Pollution of the Passaic River; embracing the report of the Special Committee appointed to represent the Newark Aqueduct Board in the Board of Inspection of the Passaic River and its Tributaries. Newark, 1882. 32 pp., pl., 9 x 6, pap.

437 ——Report of the Aqueduct Board, upon the subject of a supply of water for the City of Newark, by the Engineer, Jan. 31st, 1861. Newark, 1861. 64 pp., 9 x 6, b. p.

375 ——Report of the Engineer of the Aqueduct Board, in relation to the pumping engine. no place, 1870. 8 pp., 9 x 6, pap.

942 ——Report on additional water supply; Mar. 6th, 1879. J. J. R. Croes and G. W. Howell. Note: Report to the Newark Aqueduct Board. Newark, 1879. 108 pp., pl., maps in pocket, 9 x 6, cl.

378 ——Rules and regulations of the Aqueduct Board, governing the supply of water for the City of Newark. N. J. Newark, 1879. 16 pp., 6 x 4, pap.

——Semi-annual report of the Aqueduct Board; 1st; 1860. 1861. (See On30-3 1, Message of the Mayor, 1860, p. 16.)

370 ——Same; Dec., 1870. 1 v., 9 x 6, pap.

104 **NEWBURGH, N. Y.** Annual report of the Water Commissioners, to the Common Council; 11th-14th; 1877-80. Newburgh, 1877-80. 4 v., 9 x 6, pap.

508 **NEWBURYPORT, MASS.** Newburyport Water Co. *vs.* City of Newburyport; Newburyport Water Case. Note: Case relates to the valuation of the water-works. Bost., 1895-96. 5 v., 11 x 7, bds.

109 **NEWPORT, KY.** Annual report of the Trustees of the Water-Works; 1881. Newport, 1882. 1 v., 8 x 5, pap.

——Annual reports submitted to the Board of Councilmen. (See On35-2.1.)

106 ——Report of the City Council on water-works, Jan. 16th, 1872. Cin., 1872. 7 pp., 9 x 6, pap.

198 ——Report of the Superintendent of Water-Works, to the Board of Councilmen; 1874-76. no place, 1875-76. 2 v., 8 x 6, b. p.

198 ——Report of the Superintendent of Water-Works to the City Council; 1st; 1873. Newport, 1874. 1 v., 9 x 6, b. p.

108 ——Report of the Superintendent of Water-Works to the Committee on Water-Works; 1st; 1874. Newport, 1874. 1 v., 9 x 6, pap.

105 ——Report on water-works to the Common Council of the City of Newport; by the Chief Engineer. T. R. Scowden. Cin., 1870. 17 pp., 9 x 6, pap.

107 ——Rules and regulations for the management and protection of the Newport Water-Works, as adopted, Apr. 9th, 1874, and confirmed by the City Council, Apr. 15th, 1874. Cin., 1874. 18 + 1 pp., 9 x 6, pap.

NEWTON, MASS. Annual reports of the Water Department. (See On40-2.1.)

575 ——Duty trial of a fly-wheel, high duty, automatic cut-off, cross-compound, pumping engine. George F. Blake Manufacturing Co. no place, 1892. 27 + 5 pp., il., 8 x 5, pap.

305 ——Report of the Board of Water Commissioners; 1877. Bost., 1877. 1 v., il., pl., 9 x 6, pap.

415 **NEWTON, N. J.** Construction and annual report of the Board of Water Commissioners; 1st; 1896. Newton, 1896. 1 v., 9 x 6, pap.

256 ——Newton Water-Works. L. L. Tribus. no place, 1896. 6 pp., il., 9 x 7, pap.

550 **NÎMES, FRANCE.** Les eaux de Nîmes, de Paris et de Londres: Description des travaux exécutés à Nîmes pour la distribution des eaux du Rhône filtrées. Aristide et Georges Dumont. Paris, 1874. 2 v., 11 x 9, 14 x 12, ½ ro.

110 **NORFOLK, VA.** Annual report of the Board of Water Commissioners; 1872-74, '76-80, '84. Norfolk, 1873-84. 9 v., 9 x 6, pap.

——General specifications for the water-works; issued by the Water Department. 1871. (See Dc-443, p. 205.)

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——Municipal reports. (See On45-2.1.)

443 ——Report and plans for a supply of water for the City of Norfolk, Va. W. J. McAlpine. Norfolk, 1871. various pagings, 8 x 5, b. p.

190 ——Report of the Board of Water Commissioners, from the commencement of the work to Feb. 1st, 1873, showing condition and progress. Norfolk, 1873. pp. 35–76, 9 x 6, b. p.

608 ——Specifications for pumping engines and boilers. no place, 1890. unpaged, 9 x 6, pap. no title-page.

729 **NORTH CAROLINA.** Report on the sanitary inspection of the State Institutions and the water supply and sewage disposal of cities and towns. J. C. Chase. Raleigh, N. C., 1895. 25 pp., 9 x 6, pap.

113 **NORTHAMPTON, MASS.** Annual report of the Board of Water Commissioners; 2d; 1885. Bost., 1886. 1 v., 9 x 6, pap.

——Annual reports of officers of the city. (See On55-2.1.)

183 ——Report of Committee on Water Supply, on the best method of supplying Northampton and Florence with pure water. Northampton, 1870. 21 + 1 pp., 9 x 6, b. p.

183 ——Report of the Board of Water Commissioners; 1st-5th; 1872-76. Northampton, 1872-76. 5 v., 9 x 6, b. p.

111 ——Same; 6th-9th; 1877–80. Northampton, 1877–80. 4 v., 9 x 6, pap.

189 **NORWALK, CONN.** Annual report of the Board of Water Commissioners; 2d; 1872. Norwalk, 1873. 1 v., 8 x 5, b. p.

794 **NORWICH, CONN.** Contract and specifications of embankment and reservoir for Norwich Water-Works. no place, 1867. 55 pp., 11 x 8, pap.

188 ——Report of the Board of Water Commissioners to the Court of Common Council; 1st; 1870. Norwich, 1870. 1 v., 9 x 6, b. p.

114 ——Report of the Superintendent of Water-Works to the Board of Water Commissioners; 2d–4th, 6th–7th; 1875–77, '79–80. Norwich, 1875–80. 5 v., 9 x 6, pap.

——Report on the physical and chemical condition of the water supplied to the City of Norwich from Fair-View Reservoir. Benjamin Silliman, Jr. Norwich, 1873. 15 pp., 9 x 6, b. p. Ec-25, p. 233.

115 **OAKLAND, CAL.** Report of the Water Commissioners, with rates adopted, July 26th, 1877. Note: Table of rates fixed for the Contra Costa Water Co. Oakland, 1877. 8 pp., 9 x 6, pap.

OGDENSBURG, N. Y. Annual report of the Mayor. (See Oo10-2.1.)

116 **OMAHA, NEB.** Notice for proposals for furnishing the City of Omaha with water for fire protection, for a term of twenty-five years, in accordance with Ordinance No. 409, passed Jan. 6th, 1880. Omaha, 1880. 11 pp., 9 x 6, pap.

442 **OSWEGO, N. Y.** Report on supplying the City of Oswego with water, made to the Mayor and Common Council, Sept., 1866. W. J. McAlpine. Oswego, 1866. 37 pp., 9 x 6, b. p.

302 **OTTAWA, ONT.** Annual report of the Water Commissioners; 1876–78. Ottawa, 1877–79. 3 v., 9 x 6, pap.

301 ——Annual report of the Water-Works Committee to the Corporation of the City of Ottawa; 1879–80, '82–88, '90–91. Ottawa, 1879–91. 11 v., 9 x 7, pap.

308 ——Final report made to the Water Commissioners, 1876. T. C. Keefer. Ottawa, 1876. 54 pp., 9 x 6, pap.

443 ——Report of the Committee of the Corporation of the City of Ottawa and of the City Engineer, on Water-Works. Ottawa, 1871. 28 pp., 8 x 5, b. p.

304 ——Report on the supply of water, drainage and improvement of the City of Ottawa. G. H. Perry. Ottawa, 1861. 88 pp., 8 x 5, pap.

436 ——Report on water supply for the City of Ottawa. T. C. Keefer. Ottawa, 1869. 40 pp., 9 x 6, b. p.

443 ——Report to the Water-Works Committee of the Corporation of the City of Ottawa. Louis Lesage. Ottawa, 1871. 14 pp., 8 x 5, b. p.

118 **OWENSBORO, KY.** Account of the Owensboro Water Co., and of its first-mortgage bonds; May 10th, 1879. Louisville, 1879. 28 pp., 9 x 6, pap.

117 ——By-laws, rules and regulations of the Owensboro Water Co. Owensboro, no date. 13 pp., 7 x 5, pap.

521 **OWOSSO, MICH.** Water supply of Owosso. S. E. Parkhill. 8 pp., 9 x 6, pap. no title-page.

119 **OXFORD, N. Y.** A water supply for the Village of Oxford, N. Y. P. H. Baerman. Oxford, 1879. 12 pp., 8 x 5, pap.

689 **PARIS, FRANCE.** Dérivation des sources de la Vallée de la Vanne: Mémoire du Préfecture du Departement de la Seine. Paris, 1871. 86 pp., 9 x 6, pap.

——Direction des Travaux de Paris: Service des Eaux et des Égouts; suite du portefeuille. 1881. (See Ec-169.)

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698 ——Documents relatifs aux eaux de Paris. Contents: Premier mémoire présenté par le Préfet de la Seine au Conseil Municipal, 1855. Second mémoire présenté, 1858. Troisième mémoire présenté, 1860.- Rapport de la Commission d'Enquête Administrative chargée d'examiner le projet de dérivation des sources de la Dhuis. Rapport de la Commission Spéciale des Puits Artésiens. Paris, 1861. 461 pp., map, 7 x 4, ¾ro.

555 ——Les eaux de Lyon et de Paris: Description des travaux exécutés à Lyon pour la distribution des eaux du Rhône filtrées, et projet pour alimenter Paris en eau de Seine, pour drainer et assainer cette Capitale, suivis d'une pratique des distributions d'eau en général. Aristide Dumont. Paris, 1862. 2 v., 25 pl., 11 x 9, (atlas 14 x 11), cl.

590 ——Les eaux de Paris, leur passé, leur état présent, leur avenir. Louis Figuier. Paris, 1862. 8 + 291 pp., map, 7 x 5, ½ ro.

——État actuel de la question des eaux et des égouts à Paris et à Londres. Aristide and Georges Dumont. 1874. (See Dc-550, p. 213.)

650 ——Mémoire sur l'avant-projet de dérivation des sources de la Vanne. E. Belgrand. Paris, 1866. 64 pp., il., 13 x 9, b. p.

581 ——Mémoire sur les eaux de Paris présenté à la Commission Municipale. Paris, 1854. 57 pp., 12 x 9, ½ ro.

690 ——Mémoire sur les Réservoirs de Gentilly et de Coulanges-la-Vineuse. Rozat de Mandres. Paris, 1867. 16 pp., pl., 9 x 5, pap.

——Notes à l'appui du compte des dépenses de l'exercice; 1896-97. (See Op5-1.2.)

681 ——Notice sur le puits artésien foré dans l'enceinte de l'abattoir de Grenelle. Dela perche. no place, 1858. pp. 171-183, pl., 9 x 6, pap. no title-page.

582 ——Notice sur une dérivation des eaux de la Loire pour l'alimentation de la Ville de Paris, des Villes d'Orléans, Pithiviers, Étampes, etc., etc., et du Plateau de la Beauce. E. Girard et Robin-Duvernet. Paris, 1859. 11 + 38 pp., 12 x 9, ½ ro.

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722 ——Le puits artésien de Grenelle. Rey. Paris, 1844. 56 pp., il., 9 x 6, pap.

586 ——Rapport, du 9 Floréal, an X. Sur les moyens de fournir l'eau nécessaire à la Ville de Paris, et particulièrement sur la dérivation des Rivières d'Ourcq, de la Beuvronne, de l'Yvette, de la Bièvre et autres. L. Bruyère. Paris, 1804. 48 pp., 11 x 8, ½ ro.

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——Réponse aux documents relatifs aux eaux de Paris publiés par les soins de M. le Préfet de la Seine. C. Thiénot. Epernay, 1862. 48 pp., 9 x 5, b. p. Da-4, p. 243.

588 ——Seconde mémoire sur les eaux de Paris, présenté au Conseil Municipal, 16 Juillet, 1858. Paris, 1858. 2 v. in 1, 12 pl., 12 x 10, ½ cl.

——Sur la température des eaux souterraines de Paris pendant le mois de Décembre, 1879. Alfred Durand-Claye. Paris, 1880. 8 pp., 11 x 9. b. p. no title page. Cb-165, p. 87.

——Sur les conditions qu'on a dû chercher à réaliser dans le choix des sources destinées à l'alimentation de la Ville de Paris. E. Belgrand. 8 pp., 11 x 9, b. p. no title-page. Cb-165, p. 21.

728 ——Ville de Paris: Distribution générale des eaux de sources; carte d'ensemble des conduites maîtresses. Paris, no date. sheet, 18 x 28, pap.

120 **PARIS, ILL.** Report, including the Secretary's and Engineer's reports, together with the tariff of water rates and rules and regulations. Paris, 1879. 36 pp., 8 x 5, pap.

128 **PAWTUCKET, R. I.** Annual report of the Water Commissioners and Superintendent of Water-Works: 1st-2d, 8th; 1881-82, '87. Pawtucket, 1881-88. 3 v., 9 x 6, pap.

616 ——Pawtucket water question: Discussion on the Holly System of water-works. Holly-Baloo, pseud. 10 pp., 9 x 6, pap. no title-page.

121 ——Quarterly report of the Water Commissioners; 1st-9th, 11th-13th; 1877-80. Pawtucket, 1877-80. 12 v., 9 x 6, pap.

128 **PEEKSKILL, N. Y.** Rates, rules and regulations in relation to the introduction, supply and use of water from the water-works for 1876. Peekskill, 1876. unpaged, 9 x 6, pap.

273 ——Report of the Water Commissioners; 1872-77. Peekskill, 1877. 1 v., 9 x 6. pap.

1019 **PENRITH, ENG.** Specifications for cast-iron water pipe. no place, 1852. various pagings, 13 x 9, b. p.

PEORIA, ILL. Cost of the Peoria Water-Works. 1872. (See Op20-2.1, Report for 1871, p. 43.)

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124 ——Ordinances for the government of water takers, plumbers, etc. Peoria, 1869-13 + 3 pp., 9 x 6, pap.

295 ——Preliminary report of the Committee on Water-Works, on the best means of supplying the City of Peoria with water. Note: Contains an analysis of water, and abstract of state laws relative to the construction of water-works. Peoria, 1864. 24 pp., 9 x 6, pap.

572 **PÉRIGUEUX, FRANCE.** Note sur des pompes servant, à l'alimentation de la distribution d'eau de la Ville de Périgueux. Harlé. Paris, 1865. 31 pp., 2 pl., 9 x 6, pap.

672 **PERTH AMBOY, N. J.** Specifications for the construction, delivery and erection of a pumping engine to be erected at the station in Runyon, N. J. no place, 1897. unpaged, 14 x 9, pap. no title-page.

125 **PERU, IND.** Report of construction of Peru Water-Works, and maintenance of same up to May 1st, 1880, by Committee appointed by City Council. Indianapolis, 1880. 28 pp., 9 x 6, pap.

999 ——Specifications, etc., for furnishing materials and constructing water-works. no place. no date. 13 pp., 14 x 8, pap. no title-page.

459 **PHILADELPHIA, PA.** Annual report of the Chief Engineer of the Water Department; 63d, 71st, 74th, 76th-85th; 1864, '72, '75, '77-86. Phil., 1865-87. 13 v., 9 x 6, cl.

441 ——Same; 53d-54th; 1854-55. 2 v., 9 x 6, b. p.

454 ——Same; 57th, 63d; 1858, '64. 2 v., 9 x 6, b p.

498 ——Same; 64th, 73d; 1865, '74. 2 v., 9 x 6, b. p.

463 ——Same; 65th, 67th, 70th; 1866, '68, '71. 3 v., 9 x 6, b. p.

455 ——Same; 66th-70th; 1867-71. 5 v., 9 x 6, b. p.

456 ——Same; 72d-76th; 1873-77. 5 v., pl., 9 x 6, b. p.

459a ——Annual report of the Water Bureau; 86th-95th, 97th; 1898-96, '98. Phil., 1898-99. 11 v., pl., maps, tab., 9 x 6, cl.

499 ——Annual report of the Watering Committee to the Select and Common Councils; 1852. Phil., 1853. 1 v., 9 x 6, b. p.

881 ——Cast-iron boiler in use at the Schuylkill Engine House, Philadelphia Water-Works, from 1808 to 1815. sheet, 14 x 12, pap.

867 ——Citizens' memorial to the Select and Common Councils on the water supply of the City of Philadelphia. Parry Burnham, Williams & Co. and others. Phil., 1897. 6 pp., 9 x 6, pap.

——Description of the Philadelphia Water-Works, ed. by William Strickland, E. H. Gill and H. R. Campbell. 1841. (See Ca-70, p. 105.)

888 ——Diagrams by the Water Department, showing pumpage and rainfall from 1810 to 1876. Phil., no date. sheet, 15 x 12, pap.

882 ——Diagrams showing daily pumpage. no place, 1876-77. 2 sheets, 15 x 12, pap.

574 ——Distribution d'eau de Philadelphie: Usine de Belmont créée en 1870. Émil Malézieux. no place, 1872. sheet, 14 x 17, pap.

725 ——Drawings of the Frankfort pumping station. Phil., 1877. 2 pl., 16 x 26, pap. no title-page.

——History of water supply of Philadelphia. W. H. McFadden. 1876. (See Dc-459, 1875, p. 7.)

356 ——Legal protection of the present water supply for Philadelphia. W. W. Carr. Phil., 1886. 48 pp., 9 x 6, pap.

893 ——Letter to the Director of the Department of Public Works of Philadelphia, relating to the improvement of the water supply of the city. J. C. Trautwine, Jr. no place, 1899. 3 pp., 9 x 6, pap. no title-page.

894 ——Letter to the Mayor of Philadelphia, recommending the construction of a filtration plant in the Roxborough District, as an object lesson in waste restriction. J. C. Trautwine, Jr. no place, 1899. 10 pp., 9 x 6, pap. no title-page.

291 ——New system of supplying Philadelphia with water from the Schuylkill and Wissahickon, without the aid of steam power. James Haworth. Phil., 1875. 43 pp., 7 x 4, pap.

355 ——Notes upon the early history of the employment of water power for supplying the City of Philadelphia with water, and the building and rebuilding of the dam at Fairmount. Frederic Graff. Phil., 1886. 7 pp., 3 pl., 9 x 6, pap.

360 ——Notes upon the Water-Works of Philadelphia, 1801-1815. Frederic Graff. Phil., 1876. 7 pp., 9 x 6, pap.

457 ——Preliminary investigations for a new water supply for Philadelphia; extracts from the Annual report of the Chief Engineer, 1883-87. Contents: Surveys for future water supply: A summary by the Chief Engineer, pp. 6, 102, 261, 396. Preliminary report, report of progress and final report of a chemical investigation into the present and future water supply of Philadelphia, by Albert R. Leeds, pp. 15, 227, 361. Surveys for future supply, report of progress and final

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report, 1883, '84, '85, '86, by Rudolph Hering, pp. 47, 189, 291, 413. Summary of statistics of pollution of the Schuylkill (tables), p. 97; Report of a sanitary survey of the Schuylkill Valley, by Dana C. Barber, p. 121. South Mountain Water Co., p. 268. Sanitary surveys of proposed future supply water-sheds, by Dana C. Barber, pp. 218, 339. Pumpage diagram, Map showing proposed aqueduct routes, Map of general water-sheds, showing distribution of population; Profiles (two) of proposed aqueduct lines, in pocket in cover. Report on hydrographic work in connection with future supply, by Amasa Ely, pp. 405, 567. Address on the Schuylkill River as a source of water supply, by Chas. W. Dulles, M. D., p. 517. Address before the Water Committee of Councils, Jan. 13th, 1887, by Dr. J. Cheston Morris, p. 551. various pagings, pl., maps in pocket, tab., 9 x 6, b. p. no title-page.

517 ——Proposition of the South Mountain Water Co., to the Councils of the City of Philadelphia, to lease the water-works and construct a new system of water supply for the City of Philadelphia: Proceedings before the Councils. no place, 1886. 136 pp., map, tab., 9 x 6, pap.

458 ——Report made by the Commission of Engineers, appointed by the Mayor under the ordinance of Councils, approved June 5th, 1875. Phil., 1875. 143 pp., pl., tab., 9 x 6, cl.

312 ——Report of a Special Committee of the Fairmount Park Commissioners, upon the preservation of the purity of the water supply. Phil., 1867. 24 pp., 10 x 7, pap.

397 ——Report of Experts and Engineers appointed to test the duty and capacity of the Worthington pumping engines at Belmont. J. G. Neafie and others. no place, 1872. 6 pp., 9 x 6, pap. no title-page.

318 ——Report of the Committee on Municipal Contracts, to the Executive Committee, concerning the Queen Lane Reservoir. Citizens' Municipal Association. Phil., 1894. 16 pp., 9 x 6, pap. no title-page.

362 ——Report of the Philadelphia Watering Committee; read in Select Council, Nov. 12th, 1818. Note: Report upon the necessity of a new water main and system of piping. Phil., 1822. 42 pp., il., 8 x 6, pap.

455 ——Report of the Watering Committee; with the accompanying reports of Frederic Graff, Superintendent of Fairmount Water-Works, on filtration, and Professors Booth and Garrett on Schuylkill Water. Phil., 1854. 24 pp., 8 x 6, b. p.

389 ——Report to the Hon. Samuel H. Ashbridge, Mayor of the City of Philadelphia, on the extension and improvement of the water supply of the City of Philadelphia. Rudolph Hering, J. M. Wilson and S. M. Gray. Phil., 1899. 123 + 1 pp., il., 17 pl., 9 x 6, pap.

361 ——Reports on the Philadelphia water supply, made Oct., 1882, and Apr., 1883, by the Board of Experts, appointed June, 1882. J. V. Merrick, E. S. Chesbrough, Frederic Graff and William Ludlow. Phil., 1883. 54 pp., tab., 9 x 6, pap.

359 ——Results of examinations of water from the River Schuylkill; communicated by request, to W. H. McFadden. C. M. Cresson. Phil., 1875. 16 pp., tab., 9 x 6, pap.

608 ——Specifications for a twenty million-gallon pumping engine to be erected in the engine house of the Spring Garden Pumping Station. 7 pp., il., 11 x 7, pap. no title-page.

689 ——Specifications for engine house, boiler house and stack for the Roxborough Water-Works. Phil., 1866. 12 pp., pl., 9 x 6, pap.

350 ——Specifications for the Philadelphia Water-Works; Sept., 1895, to Jan., '96; Nos. 1–5, 7, 9–12, 14. Phil., 1895–96. 11 v., 14 x 9, pap.

——Topographical map of Philadelphia, showing water mains and street grades. 1877. (See Qf-65.)

481 ——Water supply and filtration. Phil., 1897. 116 pp., 9 x 6, pap.

455 ——The water supply of our great cities. no place, 1896 (?) 24 pp., map, 9 x 6, b. p. no title-page.

358 ——Water supply of Philadelphia. C. M. Cresson and A. R. Leeds. Phil., 1887. 16 pp., 9 x 6, pap.

——The water which is supplied to Philadelphia. John Birkinbine. 1887. (See Yj-34, p. 14.)

551 ——Water-Works of Philadelphia. Francis LeClere, pub. no place, 1897. 13 pl., 9 x 15, cl.

126 **PHŒNIXVILLE, PA.** Annual report of the Water Department; 1881. Phœnixville, 1881. 1 v., 7 x 5, pap.

127 **PIQUA, OHIO.** Annual report of the Trustees of the Water-Works to the City Council; 1st; 1876. Piqua, 1876. 1 v., 9 x 6, pap.

128 **PITTSBURG, PA.** Annual report of the Superintendent of the Water-Works; 1874, '76–79. Pittsburg, 1875–80. 5 v., 9 x 6, pap.

366 ——Pittsburg Water-Works: Map showing the location of the Hiland Avenue and Brilliant Hill Reservoirs, and the pumping works. Emile Low. no place, no date. sheet, 30 x 21, cl.

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288 ——Report of the Board of Examiners and Hydraulic Engineers; with estimates of cost of work. Pittsburg, 1871. 53 + 1 pp., 9 x 6, pap.

296 ——Report of the Filtration Commission. no place, 1899. 10 + 398 pp., 21 pl., 9 x 6, cl.

289 ——Report on the new water-works of the City of Pittsburg. W. M. Roberts. Pittsburg, 1874. 56 pp., 9 x 6, pap.

795 ——Specifications for two graduating-plunger pumping engines for Pittsburg Water-Works. no place, 1872. 26 pp., 11 x 9, pap.

621 ——Test of a Nordberg pumping engine in the pumping station of the Pennsylvania Water Co., at Wildwood Station, Pittsburg, Pa. R. C. Carpenter. no place, 1899. sheet, 19 x 19, pap.

PITTSFIELD, MASS. Annual report of the Water Commissioners; 1876. (See Dc-190, p. 417.)

288 ——Report of the Water Commissioners, made to the Pittsfield Fire District, with memoranda, etc.; 1857. Pittsfield, 1857. 19 pp., 9 x 6, pap.

——Reports of the Water Commissioners. (See Op80-2.1.)

435 ——Reports of the Water Commissioners, Prudential Committee and Commissioners of Main District, etc., of the Pittsfield Fire District. Pittsfield, 1868. 1 v., 9 x 5, b. p.

324 **PLAINFIELD, N. J.** Engineers' report and survey of the City of Plainfield, N. J., for the introduction of water-works and sewage disposal. C. P. Bassett. Plainfield, 1887. 13 pp., 9 x 6, pap.

959 **PLYMOUTH, MASS.** Annual report of the Water Commissioners, submitted to the Town Meeting; Mar., 1880. Plymouth, 1880. 1 v., 9 x 6, pap.

——Annual reports of the Town Officers. (See Op85-2.1.)

423 ——Report of the Commissioners elected to cause water to be brought from South Pond into the Village of Plymouth. Plymouth, 1856. 48 pp., 8 x 5, b. p.

188 ——Reports of the Water Commissioners, upon the condition of the water-works. no place, 1875. pp. 29-48, 9 x 6, b. p. no title-page.

718 **PONTIAC, MICH.** Water supply of Pontiac. Aaron Perry. 13 pp., 10 x 6, pap. no title-page.

129 **PORT HURON, MICH.** Annual report of the Board of Water Commissioners; 6th, 9th; 1879, '82. Port Huron, 1879-82. 2 v., 9 x 6, pap.

190 ——Charter of the Board of Public Works of the City of Port Huron; also, the by-laws, rules and regulations and tariff of water rates adopted by the Commissioners. Port Huron, 1873. 31 pp., 9 x 6, b. p.

848 **PORT LEYDEN, N. Y.** Quantities, specifications, proposal, contract and bond for Port Leyden Water-Works. Port Leyden, 1897. 10 pp., 14 x 8, pap.

405 **PORT RICHMOND, N. Y.** Report of the Health Committee of the Richmond County Good Government Club, on the water supply of New Brighton and Port Richmond. no place, 1895. 23 pp., 9 x 6, pap. no title-page.

130 **PORTLAND, ME.** Water supply, rates, rules and regulations, with a sketch of its history, charter, etc., by the Portland Water Co. Portland, 1881. 55 pp., 9 x 6, pap.

680 **PORTLAND, ORE.** Abstract of proposals to the Water Committee of the City of Portland, Ore. sheet, 18 x 13, pap. no title-page.

545 ——Report on the Water Committee of the City of Portland, by the Committee on Other Commissions, to the Committee of One Hundred. Portland, 1894. 44 pp., 9 x 6, pap.

745 ——Specifications for a line of submerged pipe across the Willamette River, Portland, Ore. no place, 1893. 5 pp., 14 x 8, pap.

643 ——Specifications of works for the water supply of the City of Portland, Ore. Portland, 1893. 75 pp., 9 x 6, pap.

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——Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Borough of Portsmouth in the County of Hampshire. Robert Rawlinson. 1850. (See Ec-28, p. 50.)

POUGHKEEPSIE, N. Y. Act to provide for a supply of water in the City of Poughkeepsie, and for sewers therein, as amended by Chapter 158 of the Laws of 1870. 1871. (See Dc-132, v. 2, p. 1.)

132 ——Annual report of the Water Commissioners to the Common Council; 2d-9th, 11th-15th; 1870-77, '79-83. Poughkeepsie, 1871-84. 13 v. in 6, 9 x 6, pap.

469 ——Same; 1st; 1869. 1 v., 9 x 6, b. p.

——Annual reports of the several departments of the City Government. (See Op50-2.1.)

Dc—(*Continued*).

132 ——Contract and specifications for the improvement of Lent's Pond. no place, 1871, 21 pp., 9 x 6, b. p.

469 ——Report, to the Board of Water Commissioners, of J. B. G. Rand, Chief Engineer; 1st; 1870. Poughkeepsie, 1870. 1 v., 9 x 6, b. p.

131 ——Rules and regulations in relation to water and sewers. Poughkeepsie, 1877. 16 pp., 8 x 5, pap.

493 ——Statement of the Water Committee, on the supply of the City of Poughkeepsie with water. Note: Contains report on the water supply by William McCammon. Poughkeepsie, 1855. 277 pp., 8 x 5, b. p.

686 **PRINCETON, N. J.** Contracts of the Princeton Water Co. Note: Specifications for construction of well and engine house, boiler house, etc. no place, 1883. 10 + 10 pp., 9 x 6, pap.

135 **PROVIDENCE, R. I.** Annual report of the Board of Water Commissioners; 2d-4th; 1878-80. Providence, 1878-80. 3 v., 9 x 6, pap.

——Annual reports of the City Engineer. (See Op55-2.1.)

402 ——Communication, in review of reports of the Water Commissioners and the Chief Engineer of the Water-Works, upon the pumping engine at the Hope Station. G. H. Corliss. Providence, 1878. 9 pp., 9 x 6, pap.

183 ——Communication, in review of the communication from Geo. H. Corliss, upon the pumping engine at Hope Station. J. H. Shedd. (City doc. No. 88.) Providence, 1878. 9 pp., 9 x 6, b. p.

876 ——Contract; and report upon the pumping engine at Hope Station. Providence Steam Engine Co. N. Y., 1876. 27 pp., 9 x 6, b. p.

702 ——Contract and specifications for cast-iron water pipes and special castings. no place, 1870, '8-. 2 v., 10 x 7, pap.

946 ——Contract and specifications for Cornish pumping engine. no place, 1873. 29 pp., 10 x 8, pap.

947 ——Contract and specifications for Hope Reservoir. no place, 1873. 52 pp., 11 x 8, pap.

945 ——Contract and specifications for laying water pipe. no place, 1870. 55 pp., 11 x 8, pap.

948 ——Contract and specifications for Sockanosset Reservoir. no place, 1870. 51 pp., 11 x 8, pap.

400 ——General description of the Providence Water-Works, by the City Engineer. Providence, 1882. 11 pp., 8 x 5, pap. no title-page.

183 ——Laws of the General Assembly of Rhode Island, relating to the supplying of the City of Providence with pure water. (City doc. No. 14c.) no place, 1866. 8 pp., 9 x 6, b. p. no title-page.

496 ——Message relating to the efficiency of the Fire Department and the fire hydrants; with communications from the Chief Engineer of the Fire Department, the Water Commissioners and the Chief Engineer of the Water-Works, Dec. 21st, 1873. (City doc. No. 51.) Providence, 1873. 15 pp., 9 x 6, pap.

178 ——The Nagle pumping engine. Providence Steam Engine Co. Note: Description and test of the high-service pumping engine of the Providence Water-Works. N. Y., 1876. 18 pp., pl., 9 x 6, pap.

708 ——Notes on the water meter system of Providence, R. I., from 1872 to 1887, inclusive. E. B. Weston. 8 pp., 9 x 6, pap. no title-page.

876 ——Official reports of the duty trials of the Providence high-service pumping engines and the contracts under which the engines were constructed. N. Y., 1876. 27 pp., 9 x 6, pap.

133 ——Providence Water-Works: Loss of head affecting fire-streams. J. H. Shedd. no place, 1877. 11 pp., 9 x 6, pap. no title-page.

——Quarterly reports of the Board of Public Works. (See Op55-3.1.)

136 ——Quarterly reports of the Board of Water Commissioners; 1870-76, Mar. '77, Nov. '80. Providence, 1870-81. 30 v., 9 x 6, pap.

493 ——Report of a Committee of the City Council, appointed to examine the sources of water supply for the city. Providence, 1868. 100 pp., map, 9 x 5, b. p.

876 ——Report of Committee to test the Corliss and Worthington pumping engines at Hope Station. N. Y., 1874. 12 pp., 9 x 6, b. p. no title-page.

495 ——Report of the Board of Aldermen, on the water-works and sewers in the City of Providence, Nov. 2d, 1874. (City doc. No. 118.) Providence, 1874. 41 pp., 9 x 6, pap.

228 ——Report of the Board of Public Works, upon the pumping engine at Pettaconset Station: erected by George H. Corliss. (City doc. No. 19.) Providence, 1882. 10 pp., 9 x 6, pap.

308 ——Report of the Board of Water Commissioners in relation to contracts with James Macdonald & Co., for Sockanosset Reservoir. (City doc. No. 57.) Providence, 1873. 7 pp., 9 x 6, pap.

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184 ——Report of the Chief Engineer of the Board of Water Commissioners; 1871. Providence, 1871. 1 v., 9 x 6, pap.

461 ——Report of the Committee on the Supply of Water; presented to the City Council. Sept. 22d, 1856. Providence, 1856. 40 pp., map, 9 x 6, b. p.

231 ——Report of the results obtained with experimental filters at the Pettaconset Pumping Station of the Providence Water-Works. E. B. Weston. Providence, 1896. 192 pp., 9 x 6, pap.

188 ——Report of the Water Commissioners and George H. Corliss, relative to pumping engines for the Water-Works. (City doc. No. 35.) Providence, 1873. 28 pp., 9 x 6, b. p.

494 ——Report upon the pumping engine at Hope Station, erected by the Providence Steam Engine Co., Jan. 3d, 1876. Charles Hermany, J. B. Francis and Channing Whitaker. (City doc. No. 5.) Providence, 1876. 18 pp., 9 x 6, pap.

188 ——Special report of the Water Commissioners in relation to foundations, buildings and plans for pumping engines at Pettaconset Station. (City doc. No. 39.) Providence, 1873. 4 pp., 9 x 6, b. p.

307 ——Water-Works of the City of Providence. William Aspinwall. Providence, 1874. 16 pp., 9 x 6, pap.

QUEBEC, QUE. Annual reports of the City Surveyor and Water-Works Engineer. (See Oq4-3.1.)

288 ——Report of C. Baillairge, Engineer of the City of Quebec, on the amelioration of its aqueduct. Quebec, 1881. 48 + 34 pp., 9 x 6, pap.

494 ——Report on supplying the City of Quebec with pure water; made for the City Council, by order of George Okill Stuart, Mayor of Quebec. G. R. Baldwin. Bost., 1848. 92 pp., maps, tab., 9 x 6, b. p.

QUEENSLAND. Annual report of the Hydraulic Engineer of the Water Supply Department; 6th-7th, 11th-15th; 1890-91, '95-99. 1890-99. (See De-1.)

QUINCY, ILL. Mayor's message and reports of City Officers. (See Oq9-2.1.)

276 ——Water-Works case: Full text of the decision of the Supreme Court recently rendered regarding the laying of water pipes in the streets of the city: The decision in favor of the Water Co. no place, 1888. 10 pp., 8 x 6, pap.

190 **RAHWAY, N. J.** Act of incorporation, rules of order and report of Engineer, to the Board of Water Commissioners. Rahway, 1871. 20 pp., 9 x 6, b. p.

READING, PA. Municipal reports of the City of Reading. (See Or5-2.1.)

811 **RED BANK, N. J.** Specifications for water-works. no place, 1844. 16 pp., 14 x 9, pap. no title-page.

824 **RED OAK, IA.** Specifications for water-works at Red Oak, Ia. no place, 1894. various pagings, 9 x 5, pap. no title-page.

137 **RICHFIELD SPRINGS, N. Y.** Report made to the Board of Water Commissioners of the Village of Richfield Springs upon the water supply, Jan., 1879. P. H. Baermann. Troy, 1879. 24 pp., 9 x 6, pap.

253 **RICHMOND, IND.** Report of plan and estimates for proposed system of water-works for Richmond, Ind. F. C. Doran. Richmond, 1881. 42 pp., 9 x 6, pap.

222 **RICHMOND, VA.** Annual report of the City Engineer; 2d; 1875. Richmond, 1875. 1 v., 9 x 6, b. p.

222 ——Annual report of the Committee on Water, with accompanying documents; 1871-74. Richmond, 1872-75. 4 v., 9 x 6, b. p.

222 ——Detailed report of the City Engineer, relative to the new reservoir, embracing all expenditures from Feb. 9th, 1874, to Apr. 4th, 1875. Richmond, 1875. 46 pp., 9 x 6, b. p.

913 ——Proposals, contract and specifications, by the Water Committee for hydraulic machinery. no place, 1880. 26 pp., 10 x 8, pap.

222 ——Report of the City Engineer to the Committee on Water, of the City of Richmond; made Dec., 1874. Richmond, 1874. 13 pp., 9 x 6, b. p.

222 ——Report of the Committee on Water-Works to the Common Council, on the condition of the water-works, and capacity and capability of the machinery. Richmond, 1876. 32 pp., 9 x 6, b. p. no title-page.

349 ——Report on the mode of supplying Church Hill with water, and on the extension of the works. J. J. Heindl. Richmond, 1871. 21 pp., 9 x 6, pap.

443 **ROCHESTER, N. Y.** Act of incorporation and reports of the Rochester Water-Works Co. N. Y., 1870. 39 pp., map, 8 x 5, b. p.

331 ——Annual report of the Board of Water Commissioners to the Common Council; 1st-2d; 1873-74. Rochester, 1874-75. 2 v., il., pl., 9 x 6, pap.

——Annual reports of the Executive Board, in charge of the Water-Works, Fire and Highway Departments. (See Or15-2.1.)

434 ——Engineers' report for supplying the City of Rochester with water from various sources; made to the Directors of the Rochester Water-Works Co. C. B. Stuart and Daniel Marsh. N. Y., 1853. 49 pp., 9 x 6, b. p.

Dc—(*Continued*).

472 ——In the matter of the application of the City of Rochester to acquire the permanent and perpetual right to draw from Hemlock and Canadice Lakes an amount of water sufficient for the use of said city and its inhabitants, not exceeding nine millions of gallons per day. no place, 1884 (?) 2 v., 1301 pp., pl., maps, tab., 10 x 7, sh.

333 ——Laws relating to the construction of Water-Works for the City of Rochester, N. Y. New York-Legislature. Rochester, 1875. 23 pp., 7 x 5, pap.

——The new conduit of the Rochester Water-Works. Emil Kuichling. 1896. (See Or15-2.1. Annual report, 1894-95, p. 307.)

592 ——On *volvox globator* as the cause of the fishy taste and odor of the Hemlock Lake water, in 1888. M. L. Mallory, G. W. Rafter and J. E. Line. no place, 1888. 10 pp., 2 pl., 9 x 6, pap.

332 ——Report of the Board of Water Commissioners to the Mayor. Nov. 15th, 1872. Note: Report on a water supply for the City of Rochester. Rochester, 1872. 100 pp., 9 x 6, pap.

335 ——Report on the introduction of a supply of pure water into the City of Rochester; made to the Mayor and Common Council, Sept., 1860. Daniel Marsh. Rochester, 1860. 71 pp., 9 x 6, pap.

——The Rochester crime against hydraulic engineering. Clemens Herschel. 1897. (See Dc-243, p. 13.)

678 ——Specifications for cast-iron distribution pipes, with their branches, etc. no place, 1876. sheet, 14 x 9, pap. no title-page.

677 ——Specifications governing the excavation and refilling of trenches for water pipes, and the laying of such pipes in the City of Rochester, N. Y. no place, 1876. unpaged, 14 x 9, pap. no title-page.

188 **ROCK ISLAND, ILL.** Annual report of the Committee on Water-Works; 1877. Rock Island, 1877. 1 v., 9 x 6, pap.

ROCKFORD, ILL. Annual reports of the City Officers. (See Or20-3.1.)

——Report of the Committee on Water-Works. 1875. (See Or20-2.1, Financial statement of the City Clerk for 1875, p. 8.)

594 ——Report on an additional water supply for the City of Rockford, Ill., Nov. 25th, 1891. J. T. Fanning, D. C. Dunlap and D. W. Mead. Rockford, 1891. 29 + 7 pp., pl., 9 x 6, pap.

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558 ——Les travaux souterrains de Paris. Contents: Pt. 1, wanting; Pt. 2, Les eaux; Introduction; Les aqueducs Romains. Paris, 1875. 2 v., ill., 8 pl., 11 x 7, ½ ro.

868 **ROTHERHAM-CUM-KIMBERWORTH, ENG.** Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.

ROTTERDAM, NETHERLANDS. Short account of the water-works of Amsterdam, Rotterdam and the Hague. L. C. van Kerkwyck. 1876. (See Cb-214, p. 198.)

139 **SACRAMENTO, CAL.** Report on expense of machinery, pipe, etc., on introduction of Holly Water-Works; also, report of Superintendent of Water-Works, on the amount and condition of water pipe in the City of Sacramento. Sacramento, 1873. 31 pp., 9 x 6, pap.

906 **ST. ALBANS, VT.** Contract No. 1: Water pipes and appendages. St. Albans Aqueduct Co. St. Albans, 1872. 35 pp., 10 x 8, pap.

673 **ST. BERNARD, OHIO.** Contract and specifications for furnishing and erecting pumping machinery. no place, 1894. unpaged, 14 x 9, pap.

268 **ST. CATHERINES, ONT.** Annual Report of the Water-Works Commission to the City Council; 1st; 1879. St. Catherines, 1880. 1 v., 9 x 6, pap.

262 ——Report on a water supply for the Town of St. Catherines. Thomas Monro. St. Catherines, 1875. 20 pp., 9 x 6, pap.

258 ——Rules and regulations for the management of the Service Department of the Water-Works; together with rules for plumbers and tariff of water rates, adopted Feb. 19th, 1878. St. Catherines, 1878. 18 pp., 6 x 5, pap.

SAINT-ÉTIENNE, FRANCE. The Dam of Rochetaillée, on the Furens River. G. W. Rafter. 1897. (See Dc-967, p. 4.)

752 ——Ville de Saint-Étienne: Étude sur les eaux d'alimentation. Fleury et A. Clermont. Saint-Étienne, 1892. 25 pp., pl., 12 x 10, pap.

252 **ST. JOHN, N. B.** Annual accounts and statements of the Sewerage and Water Supply Commission, with Superintendent's and Auditor's reports; 1883-88. St. John, 1884-89. 6 v., 8 x 6, pap.

142 ——Annual report of the Sewerage and Water Supply Commissioners; 1st-3d, 10th, 12th, 14th-16th, 23d; 1856-58, '65, '67, '69-71, '78. St. John, 1857-79. 9 v., 8 x 5, pap.

Dc—(*Continued*).

140 ——Provisional report of the Sewerage and Water Supply Commission on the Sewerage and Water Extension of 1876. St. John, 1877. 16 pp., 8 x 5, pap.

141 ——Reports of the Superintendent of Water-Works, for the years 1860-62. St. John, no date. 1 v., 8 x 5, pap.

452 ——Review of the report of Hurd Peters, City Engineer, on the water supply of the Cities of St. John and Portland; by the Superintendent. St. John, 1884. 54 pp., pl., 9 x 6, pap.

318 ——Special report of the Sewerage and Water Supply Commission on the formation of anchor ice; by the Superintendent. St. John, 1881. 30 pp., 5 pl., 9 x 6, pap.

285 ——Special report of the Sewerage and Water Supply Commission on the water supply of St. John and Portland. St. John, 1882. 15 pp., 9 x 6, pap.

427 ——Superintendent and Engineer's report: Sewerage and Water Supply Commission; 34th-43d; 1889-98. St. John, 1890-99. 9 v., 9 x 6, pap.

ST. JOHNSBURY, VT. Reports of the Trustees, Chief Engineer of the Fire Department and Superintendent of Water-Works. (See Os20-2.1.)

470 **ST. LOUIS, MO.** Act to enable the City of St. Louis to procure a supply of wholesome water, approved Mar. 13th, 1867; and amendatory acts, approved March 23d and 24th, 1868. St. Louis, 1870. 19 pp., 9 x 6, b. p.

470 ——Annual report of the Board of Water Commissioners; 1870, '76. St. Louis, 1870-76. 2 v., 9 x 6, b. p.

354 ——Annual report of the Water Commissioner; 1893-95. St. Louis, 1893-95. 3 v., 10 x 7, pap.

204 ——General and detail drawings of High-service Engine No. 5, by the Water Commissioner. St. Louis, 1886. 96 pl., 15 x 23, ¾ ro.

——Messages of the Mayor, with accompanying reports. (See Os30-3.1.)

994 ——Proposal, etc., to coal dealers, for coal for water-works. no place, no date. 5 pp., 14 x 8, pap. no title-page.

875 ——Proposals and specifications for pumping engines, water pipes, etc., for the St. Louis Water-Works, 1867-1868. unpaged, pl., 9 x 14, ¾ ro. no title-page.

340 ——Report of the Board of Public Improvements, on proposed extension of the St. Louis Water-Works, St. Louis, 1885. 7 pp., maps, tab., 9 x 6, pap.

470 ——Report of the Board of Water Commissioners; 1st-3d. St. Louis, 1865-66. 2 v., 9 x 6, b. p.

453 ——Report of the Committee on Water-Works, on plan for new water-works, submitted to the Common Council, Oct., 1865. St. Louis, 1866. 34 pp., 9 x 6, b. p.

——Report of the Special Committee on Water-Works, presented to the Common Council, Feb. 26th, 1861; submitting plans for new water-works, with estimates of cost and statistical information thereto. St. Louis, no date. 37 pp., 9 x 6, b. p. Os30-3.1, v. 1. p. 49.

144 ——Semi-annual report of the Board of Water Commissioners; Oct., 1866-May, '67, Nov., '75. St. Louis, 1866-75. 3 v., 9 x 6, pap.

470 ——Same; Oct., 1866-Nov., '69, Nov., '70-Nov., '75. 18 v., 9 x 6, b. p.

143 ——Semi-annual reports of the Chief Engineer and Superintendent of the Water-Works; 1876-77. St. Louis, 1878. 1 v., 9 x 6, pap.

970 ——Specifications, etc., for building conduits, clear well, high-service engine foundations, etc. no place, 1868. 18 pp., 14 x 8, pap. no title-page.

995 ——Specifications, etc., for building storage reservoirs for St. Louis Water-Works. no place, 1867. unpaged, 14 x 8, pap. no title-page.

969 ——Specifications, etc., for furnishing and laying water pipes in the City of St. Louis. no place, 1868-75. various pagings, 14 x 8, pap. no title-page.

998 ——Specifications, etc., for furnishing fire plugs. no place, no date. 3 pp., 14 x 8, pap. no title-page.

997 ——Specifications, etc., for furnishing stop valves. no place, no date. 4 pp., 14 x 8, pap. no title-page.

996 ——Specifications, etc., for work for high and low-service buildings for the St. Louis Water-Works. no place, 1869. 19 + 18 pp., 14 x 8, pap. no title-page.

741 ——Specifications for Standpipe No. 3, St. Louis Water-Works. 32 pp., 14 x 9, pap. no title-page.

235 **ST. PAUL, MINN.** Annual report of the Board of Water Commissioners; 4th, 11th-18th; 1885, '92-99 St. Paul, 1888-1900. 9 v., 9 x 6, pap.

740 ——Contract and specifications for distributing reservoir. St. Paul, 1887. 44 pp., 9 x 7, pap.

386 ——Report of the Water Commission, on plans for the water supply of St. Paul, Minn.; made to the Common Council of the city. St. Paul, 1882. 4 + 29 pp., 9 x 6, pap.

688 ——Specifications for a pumping engine at McCarron Lake. no place, 1897. 9 pp., il., 13 x 8, pap. no title-page.

Dc—(*Continued*).

512 **SALEM, MASS.** Account of the proceedings upon the transfer of the Salem Water-Works to the City authorities, Nov. 16th, 1869; and the addresses of W. P. Phillips, Chairman of the Commissioners, and William Cogswell, Mayor of the City. Salem, 1869. 161 pp., 9 x 6, bds.

513 ——Annual report of the Wenham Water Board to the City Council; 1st–15th; 1869–83. Salem, 1870–84. 15 v., 9 x 6, pap.

511 ——Communication to the City Council regarding the power of the Water Commissioners to spend funds not yet appropriated by the Council. Salem, 1865. 8 pp., 9 x 6, b. p. no title-page.

511 ——Debate of the Salem Aqueduct Meeting, on the water question, at Mechanic Hall, Jan. 4th, 1868: Extracts from speeches of Hon. W. D. Northend and W. C. Endicott; and the reply of Willard P. Phillips. Note: Meeting called to protest against the management of the Wenham Water Board. Salem, 1868. 12 pp., 9 x 6, b. p.

511 ——Ordinance to regulate the proceedings of the Commissioners for supplying the City of Salem with pure water. Salem, 1865. 6 pp., 9 x 6, b. p. no title-page.

511 ——Programme for the Aqueduct Meeting at Mechanic Hall, Jan. 4th, 1868, and other matters. Note: Satirical account of a proposed meeting, which ridicules the purchase by the City of Salem of the Salem and Danvers Aqueduct. no place, no date. 7 pp., 9 x 6, b. p.

511 ——Quarterly report of the Joint Standing Committee on Water-Works; 1st; 1865. Salem, 1865. 1 v., 9 x 6, b. p. no title-page.

511 ——Report of the Aqueduct Meeting at Mechanic Hall, Dec. 22d, 1865. Note: Opposes the purchase of the Salem and Danvers Aqueduct. no place, no date. 8 pp., 9 x 6, b. p.

511 ——Report of the Committee of "Four from each ward," appointed by the Salem Water Supply Mass-meeting to lay before the community, information bearing on the water question. Note: Opposes the purchase of the Salem and Danvers Aqueduct. Salem, 1865. 4 pp., 9 x 6, b. p. no title-page.

511 ——Report of the Joint Special Committee on Supply of Water. Salem, 1864. 8 pp., 9 x 6, b. p.

511 ——Report of the proceedings in the Supreme Judicial Court upon the petition of Caleb Foote and others for an injunction against the City of Salem. Salem, 1866. 45 pp., 9 x 6, b. p.

511 ——Report of the Water Committee, 1863; together with the Act of the Legislature, approved May 13th, 1864, "For supplying the City of Salem with pure water." Salem, 1864. 28 pp., 9 x 6, b. p.

——Semi-annual report of the Water Commissioners to the City Council; 1st–9th; 1865–69. (See Dc-511, p. 157, and Dc-509, p. 373.)

510 ——Thickness of water-pipes measured for the Salem Water Commissioners. J. A. Haskell and others. Salem, 1868. 16 pp., 9 x 6, b. p. no title page.

510 ——Weight of water-pipes weighed for the Salem Water Commissioners. W. A. Hall. Bost., no date. 15 pp., 9 x 6, b. p.

511 ——Wenham Water-Works; Statements, cost of works thus far; progress of works; deficiency in iron pipe, etc. W. P. Phillips, anon. no place, no date. 20 pp., 9 x 6, b. p.

SALT LAKE CITY, UTAH. Annual message of the Mayor with the annual reports of the officers of Salt Lake City. (See Os50-3.1.)

146 ——Application for a water supply, made to the City Council of Salt Lake City, Oct. 21st, 1884; together with the report of Charles L. Stevenson, as to practicable methods for obtaining such a water supply. Edward Osborne and others. Salt Lake City, 1885. 37 pp., 9 x 6, pap.

918 ——Contract and specifications for earth and rock work for constructing masonry conduit and appurtenances from Parley's and Emigration Creeks to Salt Lake City. no place, 1890. 12 pp., 14 x 8, pap. no title-page.

919 ——Contract and specifications for furnishing and laying wrought-iron riveted pipe from Emigration Creek to junction of conduit line from Parley's Creek. no place, 1890. 2 pp., 14 x 8, pap. no title-page.

842 **SAN BERNARDINO, CAL.** Specifications for water-works for the City of San Bernardino, Cal. Note: Pt. I, Pipe, fittings, and laying of conduit. Pt. II, Trenching, laying of pipes and backfilling. no place, 1890. 2 v., 14 x 8, pap.

835 **SAN FRANCISCO, CAL.** Crystal Springs Dam, constructed for the Spring Valley Works. no place, 1890. sheet, 18 x 27, pap.

——Map of San Francisco, Cal., showing the water service of Spring Valley Water-Works, distributing reservoirs, districts supplied by each, and location of principal distributing mains; contour lines showing elevation above tide water, and fire department and fire patrol buildings; with plates and drawings illustrating the Spring Valley Water-Works. Dakin Publishing Co. 1895. (See Qf-178.)

208 ——Memoir on the water supply of the City of San Francisco. W. J. McAlpine. no place, 1879. 18 pp., 9 x 6, pap.

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——Municipal reports. (See Os55-2.1.)

477 ——Proceedings of the Board of Supervisors; and reports of engineer in the matter of furnishing water supplies for the City and County of San Francisco. no place. 1875. 115 pp., maps, 9 x 6, cl.

147 ——Regulation of water rates: Proceedings before the Board of Supervisors. San Fran., 1880. 93 pp., 9 x 6, pap.

547 ——Report on the various projects for the water supply of San Francisco, Cal., made to the Board of Water Commissioners, by G. H. Mendell, Engineer. San Fran.. 1877. 9 + 223 pp., pl., maps, tab., 9 x 6, pap.

148 **SANDUSKY, OHIO.** Annual report of the Trustees of the Water-Works; 1st-8th; 1876-83. Sandusky, 1877-84. 8 v., 9 x 6, pap.

SANTOS, BRAZIL. Sanitary improvements for the City and Port of Santos, Brazil. E. A. Fuertes. Rudolph Hering and J. H. Fuertes. 1894. (See Ec-?3.)

——Specifications for water-works at Santos, Brazil. by E. A. Fuertes, Rudolph Hering and J. H. Fuertes. 1894. (See Ec-13, p. 197.)

149 **SARATOGA SPRINGS, N. Y.** Annual Report of the Water Commissioners; 7th; 1879. Saratoga Springs, 1879. 1 v., 9 x 6, pap.

——Charter and by-laws of the Village; together with the Water Law and By-laws. 1872. (See Os58-1.1.)

279 ——Report of the trial of the Gaskill pumping engine at Saratoga Springs, N. Y., June, 1883. C. T. Porter. no place, 1883. 40 pp., il., pl., 9 x 6, pap.

150 **SARNIA, ONT.** By-law No. 169, to regulate the working and management of the water-works, and for other purposes; as amended Apr. 9th, 1877. Sarnia, 1877. 8 pp., 9 x 6, pap.

813 **SAULT STE. MARIE, MICH.** Specifications for water-tower and the Sault Ste. Marie, Water-Works. no place, 1893. unpaged, 13 x 8, pap.

799 ——Specifications for water-works. Sault Ste. Marie, 1885. 6 pp.,11 x 8, pap.

961 **SCHENECTADY, N. Y.** Biological examination of Mohawk River at Schenectady, N. Y. C. C. Brown. no place, 1893. 7 pp., 9 x 6, pap.

783 ——Contract and specifications for tank for Schenectady Water-Works. Schenectady, 1895. 14 pp., 10 x 7, pap.

435 ——Report to the Water Commissioners of the City of Schenectady, 1867. W. J. McAlpine. Schenectady, 1868. 16 pp., 8 x 5. b. p.

915 ——Specifications for pumping engine, etc., reference being had to plans. no place, no date. 7 pp., 10 x 8, pap. no title-page.

917 ——Specifications for the pump, main and distributing pipes, water gates, hydrants, etc., reference being had to plans. no place, no date. 10 pp., 10 x 8, pap. no title-page.

916 ——Specifications of the distributing reservoir, reference] being had to plans. no place, no date. 7 pp., 10 x 8, pap. no title-page.

914 ——Specifications of the engine house, boiler house, pump well, chimney, dam at Veeder's Creek and conduit leading to pump well, reference being had to plans. no place, no date. 11 pp., 10 x 8, pap. no title-page.

984 **SCRANTON, PA.** Plan, elevation and section of new dam. Scranton Gas and Water Co. Scranton, 1873. pl., 15 x 23, pap.

SEATTLE, WASH. Municipal reports. (See Os65-2.1.)

719 ——Report on water-works for the City of Seattle, Wash.. to the Mayor and City Council; by Benezette Williams, Chief Engineer of the Water Department. Seattle, 1890. 35 + 4 pp., 8 x 5, pap.

151 **SEWICKLEY, PA.** Annual report of the Commissioners of the Water-Works to the Borough Council; 1st, 4th; 1874, '77. Pittsburg, 1875-78. 2 v., 9 x 6, pap.

798 **SHARON SPRINGS, N. Y.** Water-works and sewers: Notices, specifications, etc. no place, 1897. unpaged, 11 x 7, pap.

SHEFFIELD, ENG. Analysis of evidence given before the Sheffield Jury on the cause of the failure of the Bradfield Reservoir. William Naylor. Lond., 1864. 7 pp., 8 x 5, b. p. no title-page. Ec-20, p. 79.

546 ——Complete history of the great flood at Sheffield on Mar. 11th and 12th, 1864; being a true and original narrative from authentic sources; Mr. Rawlinson's report to Government on the causes of the flood. etc. Samuel Harrison. Note: Account of the destruction of the Bradfield Reservoir. Lond., 1864. 8 + 160 pp., pl., 9 x 6, cl.

589 ——Copies of the report of the engineers employed by the Sheffield Water-Works Co. to report on the Dale Dike and Agden Reservoirs, etc. no place, 1866. 38 pp., pl., 13 x 9. b. p. no title-page.

589 ——Copy of the reports of the engineers employed by the Sheffield Water Co. and by the Corporation of Sheffield, to report on the bursting of the Dale Dike Reservoir; and of the reports of the Royal Engineers for the York District on the same subject, etc. no place, 1865. 22 pp., pl., 13 x 9, b. p.

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——Letter to Mr. Leather, (the Consulting Engineer, in relation to the failure of the Bradfield Reservoir, after a minute inspection of the reservoir bank, Apr. 30th, 1864. William Naylor. no place, 1864. 5 pp., 9 x 6, b. p. no title-page. Cb-211, p. 275.

——Report from the Chairman, on inspection of the Sheffield embankment. John Gray. 1864. (See Dc-564, p. 85.)

216 ——Report made to the Secretary of State for the Home Department, on the condition of the reservoirs belonging to the corporations of the Boroughs of Sheffield and Bradford, in the County of York. Robert Rawlinson. no place, 1864. 1 v., pl., map, 13 x 8, pap.

215 ——Report on the failure and bursting of a reservoir embankment belonging to the Sheffield Waterworks Cc., on the night of Friday, Mar. 11th, 1864. Robert Rawlinson and Nathaniel Beardmore. no place, 1864. 76 pp., pl., maps, 13 x 8, pap.

868 ——Scheme for the supply of water to the Towns of Sheffield, Rotherham-cum-Kimberworth, and Doncaster, with provision for the future supply of Chesterfield, etc., from the sources of the River Derwent, and the gathering grounds of the Derbyshire Peak. M. B. Jackson. Lond., 1866. 39 pp., 9 x 6, pap.

184 **SIDNEY, OHIO.** Statement of the cost of the Sidney Water-Works, submitted to the Town Council, Feb. 3d, 1874. Sidney, 1874. 8 pp., 4 x 3, pap.

152 **SOMERVILLE, MASS.** Annual report of the Mystic Water Board; 1877. Note: Water supplied by the Boston Water-Works. Somerville, 1878. 1 v., 9 x 6, pap.

194 ——Same; 1874. 1 v., 9 x 6, b. p.

——Annual reports. (See Os75-2.1.)

468 ——Contract of the Boston Mystic Water Board and Somerville Mystic Water Committee for a supply of Mystic Lake water, 1868. Charlestown, 1869. 7 pp., 9 x 6, b. p.

956 **SOUTH AUSTRALIA.** Report of the Department of Public Works; June, 1898–June, '95, June, '96. Adelaide, 1898–98. 4 v., pl., maps, 13 x 8, pap.

153 **SOUTH HADLEY FALLS, MASS.** Report of the Treasurer of the Board of Water Commissioners, Fire District No. 1; from May, 1872, to March, 1875. Holyoke, no date. unpaged, 8 x 5, pap.

154 **SOUTH NORWALK, CONN.** Rules and regulations. South Norwalk, 1875. 20 pp., 7 x 5, pap.

541 **SOUTHINGTON, CONN.** Report of the Secretary and Engineer of the Southington Water Co., on the construction of the water-works. Southington, 1885. 28 + 2 pp., pl., map, 8 x 5, pap.

1017 **SPEZIA, ITALY.** Le sorgenti che alimentano l'acquedotto civico di Spezia e le possibili cause di diminuzione della loro portata. A(merigo) Raddi. Milano, 1891. 2 pp.,pl., 10 x 7, pap.

156 **SPRINGFIELD, ILL.** Report of the Water-Works Commissioners; 8th-14th, 16th; 1873-80, '82. Springfield, 1874-82. 8 v., 9 x 6, pap., cl.

155 ——Semi-annual report of the Board of Water Commissioners; Nov. 1869, '71. Springfield, 1869-71. 2 v., 9 x 6, pap.

406 **SPRINGFIELD, MASS.** Annual report of the Board of Water Commissioners to the City Council; 1st-9th, 12th; 1874-82, '85. Springfield, 1875-86. 10 v., il., 9 x 6, pap.

443 ——Report of the Committee of the City Council: with accompanying reports of Clemens Herschel and S. Dana Hayes, with tables showing estimates, etc., for supplying the city with water. Springfield, 1872. 55 pp., 8 x 5, b. p.

407 ——Report on a source of additional water supply for Springfield, Mass. Phinehas Ball. no place, 1874. 7 pp., 9 x 6, pap. no title-page.

418 ——Report on chemical examinations of the water of the Ludlow Reservoir, Springfield, Mass. W. R. Nichols. no place, 1877. 5 pp., 9 x 6, pap. no title-page.

157 ——Report on the examination of the water supply of Springfield, Mass. W. R. Nichols. no place, 1878. 12 pp., 9 x 6, pap. no title-page.

417 **SPRINGFIELD, OHIO.** Annual report of the Board of Water-Works to the City Council; 3d; 1883. Note: Contains laws relating to water-works and water rates. Springfield, 1883. 1 v., 9 x 6, pap.

261 **STRATFORD, ONT.** Report of the Directors of the Stratford Water Supply Co.; 2d; 1884. Stratford, 1885. 1 v., 8 x 5, pap.

849 **SUMMERVILLE, GA.** Specifications of water-works and sewerage for Summerville, Ga. Kansas City, 1897. 19 pp., 14 x 8, pap.

989 **SUPERIOR, WIS.** Analytical examination of water samples from West Superior, Wis. J. W. Hill. no place, 1898-99. 15 pp., 5 tab., 9 x 6, pap.

516 **SWANSEA, ENG.** Report on the supply of water to the Town of Swansea. Michael Scott. Lond., 1852. 116 pp., pl., map, tab., 10 x 7, cl.

358 **SYRACUSE, N. Y.** Annual report of the Water Board to the Mayor and Common Council; 7th-10th; 1896-99. Syracuse, 1896-99. 4 v., il., 9 x 6, pap.

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757 ——Form of contract and specifications for rebuilding stone dam and other work at Skaneateles, N. Y. no place, 1892. 60 pp., 9 x 7, pap.

540 ——How the water supply of the City of Syracuse, N. Y., has been kept free from an unpleasant taste. W. R. Hill. no place, 1899. 11 pp., pl., 9 x 6, pap.

635 ——Proposal, contract and specifications for building a distributing reservoir. Syracuse City Water-Works Co. no place, 1878. 11 pp., 14 x 9, pap.

746 ——Proposals for cast-iron water pipe. no place, 1892. unpaged, 14 x 8, pap. no title-page.

238 ——Report of the Commissioners on Water Supply, on sources of water supply for the City of Syracuse, Feb., 1889. Contents: Pt. 1, Report of the Commissioners. Pt. 2, Report of the Engineer, J. J. R. Croes. N. Y., 1899. 74 pp., pl. and maps in pocket, tab., 9 x 6, cl.

336 ——Report of the Water Committee; also reports of J. J. R. Croes and A. W. Craven, on the subject of procuring a supply of water for the City of Syracuse from Tully Lake. Syracuse, 1871. 11 pp., 9 x 6, pap.

330 ——Report on the extent of the first works to be constructed for supplying water to Syracuse, N. Y., from Skaneateles Lake. J. J. R. Croes. N. Y., 1890. 7 pp., 9 x 6, pap.

731 ——Review of the plans and estimates of the Salmon River as a source of water supply, as reported by O. H. Bogardus to the Syracuse and Salmon River Water Co., Mar., 1888; and by J. J. R. Croes, as reported to the Syracuse Water Commission, Feb. 1st, 1889. Emil Kuichling. no place, no date. 18 pp., 9 x 6, pap.

281 **TACOMA, WASH.** Report on the water supply of the City of Tacoma, to the Mayor and Chairman of the Water Committee. Rudolph Hering. Tacoma, 1892. 40 pp., 9 x 6, pap.

158 **TAUNTON, MASS.** Annual report of the Water Commissioners; 1st–4th, 6th, 10th, 16th; 1876–79, '81, '85, '91. Taunton, 1876–92. 7 v., 9 x 6, pap.

TENBY, ENG. Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Parish of St. Mary, within the Borough of Tenby, in the County of Pembroke. G. T. Clark. 1850. (See Ec-28, p. 189.)

738 **THE DALLES, ORE.** Specifications for extending the water-works. Board of Water Commissioners. The Dalles, 1890. 24 pp., 9 x 6, pap.

785 **THERESA, N. Y.** Quantities, specifications, proposals and contracts for Theresa Water-Works. Antwerp, 1895. 26 pp., 12 x 9, pap.

194 **TOLEDO, OHIO.** Annual report of the Trustees, Secretary, and Chief Engineer of the Water-Works, to the Common Council; 3d; 1875. Toledo, 1876. 1 v., 9 x 6, b. p.

160 ——Annual report of the Water-Works Board, including Secretary and Superintendent's reports, to the Toledo Common Council; 1st–7th, 9th; 1873–79, '81. Toledo, 1873–81. 8 v., pl., 9 x 6, pap.

159 ——By-laws and rules and regulations for the management and protection of the Water-Works, adopted Feb. 10th, 1874. Toledo, 1874. 22 pp., 9 x 6, pap.

744 ——Contract and specifications for pipe laying. no place, 1896. 7 pp., 14 x 8, pap.

674 ——Contract and specifications for pumping machinery. no place, 1891. unpaged, 14 x 8, pap.

853 **TOMAHAWK, WIS.** Specifications for the construction of water-works in the City of Tomahawk, Wis. W. W. Curtis. Tomahawk, 1891. 37 pp., 8 x 5, pap.

TORONTO, ONT. Annual report of the Board of Water Commissioners; 1st–3d; 1872–74. (See Dc-478, Annual report, 1875, p. 103.)

478 ——Same; 4th–6th; 1875–77. Toronto, 1876–78. 3 v., 9 x 6, pap.

479 ——Annual report of the City Engineer and Manager; 1878–79, '82–84. Toronto, 1879–85. 5 v., 9 x 6, pap.

480 ——Annual report of the Superintendent of the Water-Works Department; 1885–92. Toronto, 1886–93. 8 v., 9 x 6, pap.

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224 ——Proceedings of the Standing Committee on Fire, Water and Gas, in connection with the supply of water to the city. Toronto, 1854. 82 pp., 8 x 5, b. p.

437 ——Report on a water supply for the City of Toronto. T. C. Keefer. Toronto, 1857. 34 pp., 8 x 6, b. p.

339 ——Report on the extension of the water supply and on the disposal of the sewage of the City of Toronto. Rudolph Hering and S. M. Gray. no place, 1889. 31 pp., maps, 9 x 6, pap.

260 ——Toronto Water-Works: Report of City Engineer on proposed enlargement and improvements. E. H. Keating. Toronto, 1893. 24 pp., pl., 10 x 6, pap.

473 ——Water supply of the City of Toronto, Canada. James Mansergh. Westminster, 1896. 88 pp., pl., maps, tab., 10 x 7, pap.

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768 **TOULOUSE, FRANCE.** Nouvelle distribution d'eau, 3e partie, canalisation: Cahier des charges et bordereau des prix. no place, 1864. unpaged, 12 x 8, pap.

770 ——Nouvelle distribution d'eau, 3e partie, canalisation: Detail estimatif des travaux. no place, 1864. unpaged, 12 x 8, pap.

724 **TOURS, FRANCE.** Distribution des eaux du Cher; plan de l'usine hydraulique et des ouvrages aux abords construits près l'écluse de Rochepinard sur le Cher. Holcroft. Tours, 1853. pl., 30 x 28, pap.

966 **TRAVERSE CITY, MICH.** Report of the Special Water Supply Committee, including also the report of the engineers. Traverse City, 1897. 77 pp., 5 tab., 9 x 6, pap.

163 **TRENTON, N. J.** Annual report of the Board of Water Commissioners; 1880–81. Trenton, 1880–81. 2 v., 9 x 6, pap.

461 ——Report of the President and Directors of the Trenton Water-Works to the Stockholders; 1856. Trenton, 1856. 1 v., 9 x 6, b. p.

161 ——Report of the trial of the pumping engine built for the Trenton Water-Works, 1876. F. J. Slade. Trenton, 1876. 13 pp., pl., 9 x 6, pap.

162 ——Rules and regulations. Trenton, 1879. 8 pp., 9 x 6, pap.

721 **TRINIDAD, COLO.** Specifications for the construction of a storage reservoir for the City of Trinidad, Colo. unpaged, 13 x 8, pap. no title-page.

64 **TROY, N. Y.** Annual Report of the Water Commissioners to the Common Council; 1st–21st, 23d–25th, 28th; 1856–75, '77–79, '82. Troy, 1858–83. 25 v. in 5, 9 x 6, pap.

614 ——Report on an additional water supply for the City of Troy, made to the Water Commissioners, June 18th, 1897; together with analyses of waters of the Tomhannock Creek by W. P. Mason and an endorsement of the plan by Elnathan Sweet. W. G. Raymond. no place, 1897. 28 pp., il., 9 x 6, pap.

607 ——Report on an additional water supply for the City of Troy, made to the Water Commissioners: together with analyses of the waters from the different sources examined by W. P. Mason. Elnathan Sweet and W. G. Raymond. Troy, 1868. 28 pp., 9 x 6, pap.

615 ——Water supply for the City of Troy: A report made to the Water Commissioners; together with analyses of the waters from the different sources examined. W. J. McAlpine. no place, 1872. 50 pp., 9 x 6, pap.

177 **UNITED STATES.** Catalogue of water-works: Reports and information in the United States and Canada. Edward Prince. Note: Partial catalogue of the library of Edward Prince, of Quincy, Ill. Quincy, 1879. 27 pp., 8 x 5, pap.

189 ——Centennial Commission of the American Society of Civil Engineers: Sub-committee on water-works; Catalogue. (International Exhibition at Philadelphia, 1876.) no place, 1876. 16 pp., 9 x 6, pap.

868 ——Manual of American Water-Works; compiled from special returns; 1st–4th; 1888–97. N. Y., 1888–97. 4 v., 9 x 6, cl.

——Notes on the water-works of some of the principal cities in the United States. *Sir* C. A. Hartley. 1875. (See Cb-238, p. 43.)

——Schedule of water rates of principal cities in the United States. 1871. (See Dc-445, Annual report, 1870, p. 101.)

——Sketch of water-works in the United States. David Stevenson. 1859. (See Cc-368*a*, p. 188.)

900 ——Statistical tables: from the "History and Statistics of American Water-works;" 1883, '85. J. J. R. Croes. N. Y., 1883–85. 2 v., 9 x 6, cl.

179 ——Table of general information concerning the water-works of the United States and Canada. Holly Manufacturing Co., pub. Lockport, 1878. 16 pp., 9 x 6, pap.

588 ——Whipple's "Water Supply"; 1888–89. F. H. Whipple. Detroit, 1889. 166 pp., il., 10 x 7, pap.

165 **VALLEJO, CAL.** Water rates, and rules and regulations, adopted Dec. 11th, 1879. Vallejo, 1880. 8 pp., 9 x 6, pap.

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VERSAILLES, FRANCE. Études sur les eaux de Marly et de Versailles. F. Vallès. Paris, 1864. 144 pp., pl., 8 x 5, b. p. Da-4, p. 301.

778 **VERVIERS, BELGIUM.** Gileppe Dam: Synopsis of a description and discussion, made before the Engineers' Club of Philadelphia, Oct. 15th, 1887. Arthur Marichal. 3 pp., 6 pl., 11 x 15, pap. no title-page.

286 **VICTORIA.** Annual report of the Secretary of the Mines and Water Supply Department; 1st–3d; 1887–89. Melbourne, 1887–89. 3 v., 14 x 9, pap.

166 **WAKEFIELD, MASS.** Report of the Board of Water Commissioners; 1869–71. Wakefield, 1881. 1 v., 9 x 6, pap.

167 **WALTHAM, MASS.** Report of the Board of Water Commissioners; 1st-2d, 4th, 11th; 1874–75, '77–83. Waltham, 1874–83. 10 v., 9 x 6, pap.

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571 **WARE, MASS.** Annual report of the Board of Water Commissioners; 1st; 1886. Ware, 1887. 1 v., 8 x 5, pap.

WASHINGTON, D. C. Advertisement, instructions for bidders, specifications and proposal for building an aqueduct bridge over Rock Creek at Washington. 1889. (See Fe-37.)

——Annual report of the Chief Engineer and General Superintendent of the Washington Aqueduct. Wash., 1863. 1 v., 9 x 6, b. p. Cfb-8, p. 1.

——Annual reports of the Commissioners of the District of Columbia. (See Od40-2.1.)

——Annual reports of the Engineer Department of the District of Columbia. (See Od40-3.1.)

922 ——Contract and specifications for a 48-in. sheet-iron pipe, to be placed in the distributing reservoir. no place, 1871. 10 pp., 10 x 8, b. p.

921 ——Contract and specifications for furnishing cast-iron water pipes, 30 and 20 ins. in diameter, and special castings. Wash., 1872. 23 pp., 11 x 9, pap.

920 ——Contract and specifications for furnishing cast-iron water pipes, 36 ins. in diameter, and stop-cocks and special castings. Wash., 1871. 21 pp., 10 x 8, pap.

922 ——Contract and specifications for laying cast-iron water pipes, 30 ins. and 20 ins. in diameter, and stop-cocks and special castings. Wash., 1872. 27 pp., 10 x 8, b. p.

699 ——Maps and drawings illustrating the construction of the Washington Aqueduct. M. C. Meigs. Wash., 1859. 19 pl., 10 x 17, pap. no title-page.

987 ——Plates illustrating the construction of the Washington Aqueduct. Wash., 1871. 15 sheets, 23 x 29, pap.

805 ——Proposal for construction of dam for increasing the water supply of Washington. Wash., 1883. 10 + 2 pp., 14 x 9, pap.

808 ——Proposal for construction of reservoir for increasing the water supply of Washington. Wash., 1883. 10 + 2 pp., 14 x 9, pap.

804 ——Proposal for construction of tunnel for increasing the water supply of Washington. Note: Relating to the extension of the Washington Aqueduct by tunnel. Wash., 1883. 9 + 2 pp., 14 x 9, pap.

806 ——Proposal for furnishing cast-iron water pipes and castings for water supply, District of Columbia. Wash., 1889. 10 pp., 14 x 9, pap.

815 ——Proposal for furnishing cast-iron water pipes and special castings for increasing the water supply of Washington. Wash., 1883. unpaged, 14 x 9, pap.

807 ——Proposal for water supply, District of Columbia. Wash., 1889. 9 pp., 14 x 9, pap.

577 ——Report of the Water Board of Georgetown, D. C. to the Councils; with report of the Engineer, Feb. 10th, 1860. Wash., 1860. 24 pp., 8 x 5, pap.

29 ——Report of the Water Registrar of the District of Columbia, from Nov., 1877, to June 30th, 1878 Wash., 1878. 14 pp., 9 x 6, pap.

441 ——Report on the Washington Aqueduct, containing detailed estimates of work upon each section. M. C. Meigs. (34th Cong., 1st Sess. House ex. doc. No. 82.) Wash., 1856. 101 pp., 9 x 6, b. p. no title-page.

429 ——Report upon a plan for supplying the Cities of Washington and Georgetown with water. M. C. Meigs. (32d Cong., 2d Sess. Senate ex. doc. No. 48.) Wash., 1853. 55 pp., 9 x 6, b. p.

896 ——Specifications, etc., for furnishing and delivering brick, cement, sand, special castings, and bolts at Washington. U. S.-Corps of Engineers. Wash., 1898. 7 pp., 14 x 8, pap. no title-page.

944 ——Specifications, etc., for furnishing and delivering cut stone at Washington. U. S.-Corps of Engineers. no place, 1899. unpaged. 14 x 8, pap. no title-page.

897 ——Specifications, etc., for furnishing and delivering stone at Howard University Reservoir, Washington. U. S.-Corps of Engineers. Wash., 1899. 6 pp., 14 x 8, pap. no title-page.

1013 ——Specifications, etc., for furnishing and installing pumping plants at Washington. Wash., 1900. 7 pp., 14 x 8, pap. no title-page.

1019 ——Specifications for conduit and receiving reservoir for the Washington Aqueduct. no place, 1857. various pagings, 13 x 8, b. p. no title-page.

922 ——Specifications for the central gate-house in the distributing reservoir. no place, 1871. 8 pp., 11 x 8, b. p. no title-page.

923 ——Specifications for work to be done upon the Washington Aqueduct. no place, 1875. 13 pp., 10 x 8, pap.

——Supplemental report of the Chief Engineer and General Superintendent of the Washington Aqueduct. (38th Cong., 1st Sess. Senate misc. doc. No. 83.) Wash., 1864. 50 pp., maps, 9 x 6, b. p. Cfb-8, p. 15.

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533 ——Testimony taken before the Board of Arbitrators in the matter between the Potomac Water-Works and the Great Falls Manufacturing Co. no place, 1863. 16 + 34 + 85 pp., 9 x 6, pap.

287 **WATERBURY, CONN.** Annual report of the Board of Water Commissioners; 2d, 11th–29th; 1869, '77–95. Waterbury, 1869–95. 20 v., 9 x 6, pap.

980 ——Same; 2d–9th; 1869–75. Waterbury, 1869–75. 6 v., 8 x 5, b. p.

180 ——Report of the Board of Water Commissioners to the Court of Common Council; 10th; 1876. Hartford, 1877. 1 v., 9 x 6, b. p.

268 ——Report on an additional water supply for Waterbury. Rudolph Hering. Waterbury, 1892. 40 pp., 9 x 6, pap.

300 ——Rules and regulations of the Board of Water Commissioners. Waterbury, 1878. 12 pp., 6 x 4, pap.

761 **WATERBURY, VT.** Specifications of the Water Committee for furnishing and laying water pipes, furnishing and setting valves and hydrants, and building receiving and distributing reservoirs. Waterbury, 1896. 11 pp., 11 x 9, pap. no title-page.

437 **WATERTOWN, N. Y.** Report of the Board of Water Commissioners, made to the President and Trustees of the Village; with memoranda, etc. Watertown, 1858. 39 pp., 9 x 6, b. p.

WAVERTREE, ENG. Report to the General Board of Health on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Township and Manor of Wavertree, in the Parish of Childwall, Hundred of West Derby, and County Palatine of Lancaster. Robert Rawlinson. 1851. (See Ec-28, p. 305.)

569 **WELLESLEY, MASS.** Report of the Water Department; 1st; 1884. Wellesley, 1885. 1 v., pl., 9 x 6, pap.

WEST SUPERIOR, WIS. See Superior, Wis.

498 **WEST TROY, N. Y.** Report made to the West Troy Water-Works Co.; together with a letter from W. J. McAlpine. P. H. Baermann. Troy, no date. 17 pp., 9 x 6, b. p.

854 **WEST UNION, IA.** Specifications for the construction of a system of water-works. West Union, 1891. 15 pp., 8 x 6, pap. no title-page.

168 **WESTBOROUGH, MASS.** Annual report of the Water Commissioners; 1st; 1880. Westborough, 1880. 1 v., 9 x 6, pap.

302 ——Report of a Committee chosen by the town, May 15th, 1872, to make investigations with reference to the feasibility and cost of obtaining a supply of pure water for said town. Providence, 1873. 24 pp., 9 x 6, pap.

WESTFIELD, MASS. Annual reports of the Board of Water Commissioners. (See Ow20–2.1.)

198 ——Report of the Water Commissioners, on the construction of the water-works, including the Engineer's report to the Commissioners, Dec., 1875. Westfield, 1875. 50 pp., 9 x 6, b. p.

169 **WILMINGTON, DEL.** Annual report of the Chief Engineer of the Water-Works; 1871–72, '77–82. Note: Report for 1872 contains brief history of the water-works from 1796 to 1872. Wilmington, 1872–83. 8 v., 9 x 6, pap.

170 **WINCHESTER, MASS.** Annual report of the Water Commissioners; 7th; 1879–80. Woburn, 1880. 1 v., 9 x 6, pap.

180 ——Report of the Committee to Investigate the Subject of a Water Supply; also, the reports of the Engineer and Chemist. Bost., 1873. 55 pp., 9 x 6, b. p.

171 **WINDSOR, ONT.** By-law No. 220, to provide for the working and management of the water-works, passed June 25th, 1874. Windsor, 1874. 6 + 2 pp., 9 x 6, pap.

706 **WINNIPEG, MAN.** Report on a future water supply for the City of Winnipeg. Rudolph Hering. Winnipeg, 1897. 56 pp., pl., map, 8 x 5, pap.

590 **WISCONSIN.** Geology of Wisconsin water supplies. D. W. Mead. Rockford, Ill., 1894. 19 pp., map, 9 x 6, pap.

173 **WOBURN, MASS.** Annual report of the Water Commissioners; 1st–8th; 1873–80. Woburn, 1873–80. 8 v., 9 x 6, pap.

WOOLWICH, ENG. Report to the General Board of Health, on a preliminary inquiry into the sewerage, drainage and supply of water, and the sanitary condition of the inhabitants of the Parish of Woolwich, in the County of Kent. Robert Rawlinson. 1851. (See Ec-28, p. 403.)

585 **WOONSOCKET, R. I.** Annual report of the Water Commissioners; 2d; 1887. Woonsocket, 1887. 1 v., 9 x 5, pap.

431 **WORCESTER, MASS.** Annual report of the Aqueduct Commissioner; 1864. no place, 1865. 1 v., 9 x 6, b. p. no title-page.

431 ——Annual report of the Joint Standing Committee on Water; 1865–66. Worcester, 1866–67. 2 v., 9 x 6, b. p.

194 ——Annual reports of the City Engineer and of the Water Commissioner; 1872, '75. Worcester, 1873–76. 2 v., 9 x 6, b. p.

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178 ——Annual reports of the Water Committee, the Water Commissioner, the Water Registrar and the City Engineer; 1874–79, '85. Note: For Annual reports prior to 1874, see Ow40-2.1. Worcester, 1875–86. 7 v., 9 x 6, pap.

431 ——Report of a Joint Special Committee on Water, of the City Council, on an additional supply of water for the City of Worcester; with report, plan and estimates by Phinehas Ball. Worcester, 1863. 27 pp., 9 x 6, b. p.

431 ——Report of a survey for water for the City of Worcester. M. B. Inches. Worcester, 1854. 54 pp., 9 x 6, b. p.

194 ——Report of the Engineer on sources for an additional supply of water for the City of Worcester. 1875. Worcester, 1876. 31 pp., 9 x 6, b. p.

391 ——Report of the Joint Committee of the City Council, on rebuilding the Lynde Brook Dam: A complete history of the Worcester Water-Works from 1722 to 1877. Worcester, 1878. 64 pp., 9 x 6, pap.

390 ——Report of the Joint Standing Committee on Water, on an additional supply of water. no place, 1881. 30 pp., 9 x 6, pap.

431 ——Reports of the Joint Standing Committee on Water, on construction; and of the Aqueduct Commissioner; 1864. Worcester, 1869. 26 pp., 9 x 6, b. p.

——Specifications for doing earth and stone work, required in constructing the Worcester Water-Works. 1865. (See Dc-431, p. 211.)

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——Principles of pendent bridges with reference to the properties of the catenary, applied to the Menai Bridge: also a theoretical investigation of the catenary. Samuel Ware. 1822. (See Fa-14, p. 177.)

5 **MIDDLETOWN RY. SUSPENSION BRIDGE.** Opinions and affidavits relating to the plan for a railway suspension bridge at Middletown. Hartford, 1849. 12 pp., map, 9 x 6, b. p.

——Report on a railway suspension bridge across the Connecticut, at Middletown; with a proposal for its construction, to a Committee of the Citizens of Hartford. Charles Ellet, Jr. 1851. (See Fg-5, p. 236.)

19 **MOHAWK BRIDGE.** In the Supreme Court of the State of New York: Writ of *certiorari*. Mohawk Bridge Co. *vs.* The People. Schenectady, 1872. 58 + 1 pp., pl., 10 x 7, pap.

——Report on the petition of the Mohawk Bridge Co. praying for an act to prevent the Utica & Schenectady R. R. Co. from erecting a bridge across the Mohawk River at Schenectady. New York-Assembly Committee on Judiciary. no place, 1836. 5 pp., 9 x 6, b. p. no title-page. Cfh-12, p. 835.

22 **NEW YORK & BROOKLYN BRIDGE.** Acts of the State of New York, and of the United States, in relation to the N. Y. & B. Bridge. no place, 1869. 27 pp., 9 x 6, b. p.

31 ——Affidavits on behalf of Defendants on motion for injunction. A. B. Miller *vs.* the Mayor, etc., of New York, and others. Note: Injunction sought to prevent the erection of the bridge. Brooklyn, 1876. 31 pp., 11 x 7, pap.

22 ——Annual reports of the Chief Engineer and General Superintendent; 1st-3d. New York Bridge Co. Brooklyn, 1870-72. 3 v., 9 x 6, b. p.

20 ——Argument of W. N. Dykman for Defendants; J. E. DuBois *vs.* The Mayor, Aldermen, etc., of New York and the City of Brooklyn. Note: Suit to determine whether the process used in constructing the piers of the Brooklyn Bridge was invented by J. E. DuBois. no place, no date. 59 pp., 10 x 7, b. p. no title-page.

20 ——Brief for Claimant. J. E. DuBois *vs.* The Mayor, Aldermen, etc., of New York and the City of Brooklyn. N. Y., 1892. 2 + 122 pp., 10 x 7, b. p.

43 ——By-laws. New York Bridge Co. no place, 1870 (?) 11 pp., 7 x 5, pap.

44 ——Same. Brooklyn, 1875. 8 pp., 7 x 5, pap.

104 ——Cable-making for suspension bridges, with special reference to the cables of the East River Bridge. Wilhelm Hildenbrand. (Van Nostrand's Science Ser.) N. Y., 1877. 121 pp., il., pl., 6 x 4, bds.

25 ——The cable railway on the N. Y. & B. Bridge. Gabriel Leverich. N. Y., 1888. pp. 67-102, 30 pl., 9 x 6, cl.

29 ——Cable railway: Profile of tracks. no place, 1890. pl., 13 x 38 pap.

42 ——Communication from the Chief Engineer relative to the estimates of cost of elevated tracks and platforms, etc., at the termini of the bridge, Feb. 16th, 1882. no place, 1882. 7 pp., 9 x 6, pap.

22 ——Communication from Chief Engineer W. A. Roebling, in regard to the method of steam transit over the East River Bridge, made to the Board of Trustees, Mar. 4th, 1878. no place, 1878. 15 + 1 pp., pl., 9 x 6, b. p. no title-page.

38 ——Communication to the Board of Aldermen of the City of New York, by the President of the Board of Trustees, Feb. 3d, 1876. Brooklyn, 1876. 19 pp., 9 x 7, pap.

22 ——Documents relating to the approaches of the bridge. no place, 1877. 7 pp., 9 x 6, b. p. no title-page.

22 ——The effects of high atmospheric pressure, including the caisson disease. A. H. Smith. Note: A presentation of the author's experience as Surgeon to the New York Bridge Co., during the sinking of the second caisson. Brooklyn, 1873. 43 pp., 9 x 6, b. p.

32 ——Extension of the cable driving plant: Specifications for steam boilers. no place, 1891. unpaged, 14 x 9, pap. no title-page.

40 ——Extension of the cable driving plant: Specifications for structural iron work. no place, 1891. unpaged, 14 x 9, pap. no title-page.

21 ——A few facts about the caissons of the East River Bridge. Francis Collingwood. no place, 1871. pp. 353-366, 9 x 6, b. p. no title-page.

21 ——Further notes on the caissons of the East River Bridge. Francis Collingwood. no place, 1872. pp. 119-146, 9 x 6, b. p. no title-page.

21 ——Notes on the masonry of the East River Bridge. Francis Collingwood. no place, 1876. 27 pp., pl., 9 x 6, b. p. no title-page.

26 ——Opening ceremonies of the N. Y. & B. Bridge, May 24th, 1883. Brooklyn, 1883. 122 pp., pl., 9 x 7, cl.

Fg—(*Continued*).

24 ——Plans for the enlargement of traffic facilities on the N. Y. & B. Bridge. no place, 1888 (?) various pagings, il., pl., 9 x 6, cl.

30 ——Plans of the Rapid Transit Cable Co. for system and terminals. no place, 1890. 28 pp., il., 6 pl., 9 x 6, pap.

——Plates illustrating socket for suspenders. no place, no date. 2 pl., 13 x 18, b. p. no title-page. Bc-39, p. 99.

35 ——Plates illustrating the sections of the New York Caisson of the Hudson River Tunnel, and cross section of the N. Y. & B. Bridge. no place, 1882. sheet, 18 x 14, pap.

20 ——Pleadings, evidence, etc. J. E. DuBois *vs.* The Mayor, Aldermen, etc., of New York and the City of Brooklyn. Brooklyn, 1892. 383 pp., 10 x 7, b. p.

22 ——Pneumatic tower foundations of the East River Suspension Bridge. W. A. Roebling. Brooklyn, 1872. 92 pp., il., pl., 9 x 6, b. p.

22 ——Proceedings of the Board of Trustees in relation to the material used for the superstructure of the bridge. no place, 1882. 5 pp., 9 x 6, b. p.

22 ——Proceedings of the Board of Trustees in relation to the methods of conveying the cars to be employed on the bridge railway. no place, 1882. 8 pp., 9 x 6, b. p.

22 ——Proceedings of the Board of Trustees in relation to the use of the roadway of the bridge as a means of rapid transit between the two cities. no place, 1878. 15 pp., 9 x 6, b. p. no title-page.

21 ——Progress of work at the East River Bridge. Francis Collingwood. no place, 1879. pp. 162–172, 9 x 6, b. p. no title-page.

——Proposals and specifications for supplying southern yellow pine and white oak lumber for the floor of the N. Y. & B. Bridge. no place, 1878. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 87.

76 ——Proposals for paint. Brooklyn, 1882. unpaged, 14 x 8, pap. no title-page.

77 ——Proposals for white pine and spruce lumber. no place, 1882. 2 pp., 14 x 8, pap. no title-page.

——Report of the Board of Consulting Engineers to the Directors of the New York Bridge Co. Horatio Allen and others. no place, 1869. 15 pp., 9 x 6, b. p. Dc-442, p. 653.

36 ——Report of the Board of Experts, on terminal facilities, Jan. 10th, 1891; report of the Committee on improved traffic facilities; and extracts from the minutes of the Board of Trustees, Jan. 20th, 1891. no place, 1891. 15 pp., 5 pl., 9 x 6, pap.

108 ——Report of the Chief Engineer; 1876. Brooklyn, 1877. 1 v., 9 x 6, pap.

22 ——Report of the Chief Engineer, on prices of materials and estimated cost of the structure. New York Bridge Co. no place, 1872. 15 pp., 9 x 6, b. p.

22 ——Report of the Chief Engineer on the strength of the cables and suspended superstructure of the bridge, made to the Board of Trustees, Jan. 9th, 1882. Brooklyn, 1882. 12 pp., pl., 9 x 6, b. p.

23 ——Report of the Committee appointed by the Board of Trustees, consisting of the Mayors of the Cities of New York and Brooklyn; together with the report of the Accountants to said Committee, in the matter of an examination of the financial affairs of the N. Y. & B. Bridge, Dec. 31st, 1883. Brooklyn, 1884. 800 + 6 pp., il., 9 x 6, cl.

37 ——Report of the Committee on Terminals, Sept. 12th, 1892. no place, 1892. 10 pp., 9 x 6, pap.

22 ——Report of the Executive Committee of the East River Bridge, on the cost of the structure and land. New York Bridge Co. Brooklyn, 1873. 2 pp., 9 x 6, b. p.

46 ——Report of the General Superintendent; 4th; 1873. New York Bridge Co. Brooklyn, 1873. 1 v., 9 x 6, pap.

45 ——Report of the officers of the New York Bridge Co., to the Board of Directors; 1875. Brooklyn, 1875. 1 v., 9 x 6, pap.

22 ——Report of the Special Committee appointed to confer with the President of the Edge Moor Iron Co., with reference to their contracts for steel work. no place, 1882. 7 pp., 9 x 6, b. p.

48 ——Report of the Treasurer; 1874–85. Brooklyn, 1877–86. 11 v. in 8, 9 x 6, pap.

49 ——Report of the Trustees; 1885, '87–97. no place, 1885–97. 12 v., 9 x 6, pap.

22 ——Report to the President and Directors of the New York Bridge Co., on the proposed East River Bridge. J. A. Roebling. Brooklyn, 1870. 35 pp., 9 x 6, b. p.

47 ——Reports of the Executive Committee and Treasurer; 1872–74. New York Bridge Co. Brooklyn, 1872–74. 3 v., 9 x 6, pap.

34 ——Reports on plans for the enlargement of traffic facilities. no place, 1888. 42 pp., il., 9 x 6, pap.

68 ——Specifications for American hydraulic cement for the N. Y. & B. Bridge. no place, 1878. unpaged, 14 x 8, pap.

53 ——Specifications for anchor plates, Brooklyn Anchorage, East River Bridge. no place, 1872. 2 pp., 14 x 8, pap. no title-page.

Fg—(*Continued*).

54 ——Specifications for building and launching the wooden caisson for the foundation of the New York Tower of the East River Bridge. no place, no date. 13 pp., 14 x 8, pap. no title-page.

88 ——Specifications for building warehouses in the arches of the New York approach of the East River Bridge. no place, 1888. various pagings, 14 x 8, pap.

62 ——Specifications for cast-iron wire rope sockets for the suspenders of the East River Suspension Bridge. no place, 1877. 1 p., 14 x 8, pap. no title-page.

75 ——Specifications for certain steel work required for the completion of the suspended superstructure of the East River Bridge. no place, 1881. 8 pp., 14 x 8, pap.

59 ——Specifications for corners, facing and arch-stone, of granite, required for the New York Anchorage, East River Bridge. no place, 1875. unpaged, 14 x 8, pap. no title-page.

——Specifications for cut face-stone and backing, limestone and granite, required for the Brooklyn Anchorage, East River Bridge. no place, 1873. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 157.

57 ——Same. no place, 1874. 4 pp., 14 x 8, pap. no title-page.

58 ——Specifications for cut face-stone, backing and arch-stone of limestone, required for the New York Anchorage, East River Bridge. no place, 1875. unpaged, 14 x 8, pap. no title-page.

——Specifications for cut granite face-stone, required for the Brooklyn Tower, East River Bridge. no place, 1872. 3 pp., 14 x 8, b. p. no title-page. Bc-39, p. 165.

55 ——Specifications for cut granite face-stone, required for the New York Tower, East River Bridge. no place, 1873. 3 pp., 14 x 8, pap. no title-page.

66 ——Specifications for galvanized iron wire for cable wrapping, for the East River Bridge. no place, 1878. 3 pp., 14 x 8, pap.

60 ——Specifications for granite cut stone, required for the parapets at the roadway, Brooklyn and New York Towers, East River Bridge. no place, 1876. 4 pp., 14 x 8, pap.

30 ——Specifications for granite face, arch and other stone, required for the New York and Brooklyn approaches to the East River Bridge. no place, 1877. 8 pp., 14 x 8, pap.

51 ——Specifications for granite face-stone, required for the Brooklyn Tower, East River Bridge. no place, 1871. 3 pp., 14 x 8, pap. no title-page.

71 ——Specifications for granite paving blocks, East River Bridge approaches. no place, 1880. unpaged, 14 x 8, pap.

52 ——Specifications for iron anchor bars, Brooklyn Anchorage, East River Bridge. no place, 1872. 2 pp., 14 x 8, pap.

86 ——Same. no place, 1874. 5 pp., 14 x 8, pap.

——Specifications for iron anchor bars, New York Anchorage, East River Bridge, Apr., 1875. no place, no date. 4 pp., 14 x 8, b. p. no title-page. Bc-39, p. 135.

82 ——Specifications for laying flag and curb stones on streets about the approaches of the N. Y. & B. Bridge. no place, 1888. unpaged, 14 x 8, pap. no title-page.

61 ——Specifications for steel cable wire for the East River Suspension Bridge. no place, 1876. 6 pp., 14 x 8, pap. no title-page.

70 ——Specifications for steel suspenders, connecting rods, stirrups and pins for the East River Suspension Bridge. no place, 1880. 4 pp., 14 x 8, pap.

72 ——Specifications for steel wire ropes for the over-floor stays and storm cables of the East River Suspension Bridge. no place, 1880. 5 pp., 14 x 8, pap.

——Specifications for steel wire ropes for the suspenders of the East River Suspension Bridge. no place, 1877. 2 pp., 14 x 8, b. p. no title-page. Bc-39, p. 97.

78 ——Specifications for steel wire traction ropes for the N. Y. & B. Bridge. no place, 1882. unpaged, 14 x 8, pap.

65 ——Specifications for steel wire working rope for the East River Suspension Bridge. no place, 1878. unpaged, 14 x 8, pap.

87 ——Specifications for the Brooklyn Terminal Station. no place, 1893. 20 pp., 14 x 8, pap.

73 ——Specifications for the construction of a bridge on the line of the East River Bridge, across Franklin Square, in the City of New York. no place, 1880. 9 pp., 14 x 8, pap.

81 ——Specifications for the construction of the station building and elevated platform at the New York end of the East River Bridge. no place, 1882. 12 + 4 pp., 14 x 8, pap.

80 ——Specifications for the design and construction of passenger cars for the railway of the N. Y. & B. Bridge. no place, 1882. unpaged, 14 x 8, pap.

33 ——Specifications for the extension of the cable driving plant, exclusive of the steam engine and the friction clutches. no place, 1891. unpaged, 14 x 9, pap.

84 ——Specifications for the extension of the roadways at New York Station. no place, 1891. unpaged, 14 x 8, pap. no title-page.

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67 ——Specifications for the iron work of the suspended superstructure of the East River Bridge. no place, 1878. 36 pp., 14 x 8, pap.

88 ——Specifications for the reconstruction of the New York Terminal Station. no place, 1898. 10 pp., 14 x 8, pap.

79 ——Specifications for the rope driving machinery for operating the railway of the N. Y. & B. Bridge. no place, 1892. 11 pp., 14 x 8, pap.

69 ——Specifications for the steel and iron work of the suspended superstructure of the East River Bridge. no place, 1879. 7 pp., 14 x 8, pap.

74 ——Specifications for the wrought iron superstructure of street bridges, Brooklyn approach, East River Bridge. no place, 1880. 6 pp., 14 x 8, pap.

——Specifications for timber for New York Anchorage, East River Bridge. no place, no date. 1 p., 14 x 8, b. p. no title-page. Bc-39, p. 139.

64 ——Specifications for wrought iron cable bands and bolts for the suspenders of the East River Suspension Bridge. no place, 1877. unpaged, 14 x 8, pap.

85 ——Specifications of a steam engine for the extension of the cable driving plant. no place, 1891. unpaged, 14 x 8, pap. no title-page.

86 ——Specifications of friction clutches, for the extension of the cable driving plant. no place, 1891. unpaged, 14 x 8, pap. no title-page.

50 ——Specifications of iron work, New York Caisson, East River Bridge. no place, 1870. 17 pp., 14 x 8, pap.

105 ——Superintendent's Department: Transactions; 1888. Note: Contains synopsis of transactions for the five years, ending May 31st, 1888. no place, 1888. 1 v., 14 x 16, pap.

27 ——Testimony taken by the Committee, in relation to the N. Y. & B. Bridge. New York-(Assembly) Committee on Commerce and Navigation. Albany, 1879. 602 + 791 pp., 9 x 6, pap.

41 ——To the Trustees of the N. Y. & B. Bridge in relation to the application of elevated railroads for permission to cross the bridge, May 9th, 1896: Reports of Counsel and Engineers, with answer of elevated companies, May 29th, 1896. Brooklyn Elevated R. R. Co. N. Y., 1896. 38 pp., pl., 9 x 6, pap.

——Traffic capacity of the N. Y. & B. Bridge Ry. Gabriel Leverich. 1899. (See Fg-109.)

17 **NEW YORK & NEW JERSEY BRIDGE.** Hudson River Bridge: General specifications for its construction. Theodore Cooper. N. Y., 1895. 10 pp., pl., 9 x 6, pap.

16 ——Report. U. S.-Board of Engineers. Wash., 1894. 55 pp., 8 pl., 9 x 6, pap.

91 ——Report of mechanical tests made with the United States testing machine, capacity 800 000 pounds, at the Watertown Arsenal, Mass., May 6th, 1895, for George S. Morison; tests by tension, steel wire ropes from the Trenton Iron Co. U. S.-Ordnance Office. no place, 1895. 21 + 1 pp., 14 x 9, pap.

NIAGARA RY. SUSPENSION BRIDGE. Final report to the Presidents and Directors of the Niagara Falls Suspension and Niagara Falls International Bridge Companies, May 1st, 1855. J. A. Roebling. Rochester, 1855. 47 pp., 9 x 5, b. p. Fd-2, p. 629.

——Memoir of the Niagara Falls Suspension and Niagara Falls International Bridge. J. A. Roebling. 1856. (See Fa-97, p. 1.)

95 ——Reply to the recent criticism made by Edward Wasell upon the Niagara Railway Suspension Bridge. W. A. Roebling. N. Y. 1877. 18 pp., 8 x 5, pap.

94 ——Report on the renewal of Niagara Suspension Bridge, 1880. L. L. Buck. N. Y., 1881. 38 + 8 pp., 6 pl., tab., 9 x 6, pap.

——Report to the Directors of the Niagara Falls International and Suspension Bridge Companies. J. A. Roebling. Buffalo, 1852. 12 pp., 9 x 5, b. p. Ab-3, p. 59.

98 ——Report, to the Presidents and Directors of the Niagara Falls Suspension and Niagara Falls International Bridge Companies, on the condition of the Niagara Ry. Suspension Bridge. J. A. Roebling. Trenton, 1860. 20 pp., 9 x 6, pap.

——Specifications for the erection of the masonry of the Niagara International Suspension Bridge. no place, no date. 1 p., 13 x 8, b. p. no title-page. Dc-763, p. 71.

——Note: Replaced in 1896 by a steel arch bridge. For material relating to the latter, see Bridges—Arch.

89 **POINT BRIDGE.** American Bridge Co. (Paris Exposition, 1878.) Note: Description and general account of the construction of the Point Bridge, across the Monongahela River at Pittsburg, Pa. Chic., no date. 7 + 1 pp., 5 pl., 17 x 13, pap.

13 **POUGHKEEPSIE BRIDGE.** Bridging the Hudson at Poughkeepsie, N. Y., for a short direct through railway route from the coal fields to New England. Poughkeepsie Bridge Co., pub. Note: Proposed plan. For other material on the Poughkeepsie Bridge, see Bridges—Cantilever. Poughkeepsie, 1871. 33 + 1 pp., pl., maps, 9 x 6, pap.

Fg—(*Continued*).

96 **QUEBEC RAILROAD BRIDGE, 1897.** Proposed bridge across the St. Lawrence at Quebec; design of some forty years ago of a then proposed trussed railway suspension bridge over the St. Lawrence opposite Quebec. G. (P. F.) Baillairgé. Quebec, 1897. pl., 23 x 14, pap.

6 **WHEELING SUSPENSION BRIDGE.** Argument for the Complainant, by Edwin M. Stanton, in the Supreme Court of the United States. State of Pennsylvania *vs.* The Wheeling & Belmont Bridge Co. and others. Phil., 1852. 87 pp., 9 x 6, b. p.

——Description of the Wheeling and Bridgeport Bridges. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 11.)

5 ——In the Supreme Court of the United States, in vacation; motion for injunction before Mr. Justice Grier. State of Pennsylvania *vs.* The Wheeling & Belmont Bridge Co. and others. Phil., 1849. 20 pp., 9 x 6, b. p. no title-page.

6 ——Opinions of the Court and decree; opinion delivered by Mr. Justice McLean. State of Pennsylvania *vs.* The Wheeling & Belmont Bridge Co. and others. Phil., 1852. 44 pp., 9 x 6, b. p.

5 ——Order of reference of the Supreme Court of the United States; with the proofs taken before R. Hyde Walworth, Commissioner; together with his report and the report of the Engineer appointed by him to take the measurement of the bridge across the Ohio River at Wheeling. State of Pennsylvania *vs.* The Wheeling & Belmont Bridge Co. and others. Saratoga Springs, 1851. 2 v., pl., map, 9 x 6, ¾ cf.

5 ——Report relative to the suit by the State of Pennsylvania against the Wheeling & Belmont Bridge Co., etc. Virginia-(House) Committee for Courts of Justice. (Doc. No. 45.) no place, 1851. 11 pp., 9 x 6, b. p.

5 ——Supreme Court of the United States; in Chancery, No. 2. December Term, 1849; Mr. Stanton's argument. State of Pennsylvania *vs.* The Wheeling & Belmont Bridge Co. and others. no place, no date. 32 pp., 9 x 6, b. p. no title-page.

BRIDGES—TRUSS.

Fh

98 **AARBRÜCKE.** Aarbrücke bei Brugg. no place, no date. pl., 24 x 38, pap.

——Die Eisenbahnbrücke über die Aar bei Brugg, erbaut 1873-75. Schweizerischer Ingenieur und Architekten Verein. 1896. (See Sd16-2.1, v. 1, p. 3.)

84 **ALLSTON BRIDGE.** Contract and specifications for building an iron bridge, at Allston, over the Boston & Albany R. R. Boston-City Engineer. Bost., 1892. 22 pp., 10 x 8, pap.

103 **ALTON BRIDGE.** Plates illustrating the construction of the Alton Bridge, St. C. M. & St. L. B. R. R. G. S. Morison. N. Y., 1892. 5 pl., 40 x 22, pap.

67 ——Specifications for superstructure of bridge across the Mississippi River at Alton, Ill. G. S. Morison. no place, 1893. unpaged, 14 x 9, pap. no title-page.

12 **ASHTABULA BRIDGE.** Notes and comments on the failure of the bridge on the Lake Shore & Michigan Southern Ry., over Ashtabula Creek, Dec. 30th, 1876. Gabriel Leverich, comp. no place, no date. unpaged, 5 x 8, pap. manuscript and newspaper slips.

27 ——Report. Ohio-Joint Committee on Ashtabula Bridge Accident. Columbus, 1877. 158 pp., pl., 9 x 6, pap.

68 **ATCHISON BRIDGE.** Amended specifications for an iron railway and highway bridge over the Missouri River at Atchison, Kan. W. W. Wright. Atchison, 1873. unpaged, 14 x 9, pap. no title-page.

11 **AUBURN BRIDGE.** Wrought iron truss bridge at West Auburn, Ia. H. E. Horton. no place, no date. sheet, 24 x 38, pap.

BELLAIRE R. R. BRIDGE. Description of the Bellaire R. R. Bridge on the line of the Baltimore & Ohio R. R. U. S.-Corps of Engineers. 1871. (See Fa-66, p. 14.)

102 **BELLEFONTAINE BRIDGE.** A report to Charles E. Perkins, President of the Chicago, Burlington & Quincy R. R., by the Chief Engineer of the bridge. G. S. Morison. no place, 1894. 40 pp., 2 + 18 pl., 14 x 23, pap.

59 ——Plates illustrating the construction of the Bellefontaine Bridge. St. Louis, Keokuk & Northwestern R. R. Co. N. Y., 1892. 2 pl., 38 x 24, pap.

29 ——Specifications for masonry of bridge across the Missouri River at Bellefontaine Bluffs, Mo. St. Louis, Keokuk & Northwestern R. R. Co. no place, 1892. unpaged, 14 x 9. pap. no title-page.

33 ——Specifications for superstructure of bridge across the Missouri River at Bellefontaine Bluffs, Mo. St. Louis, Keokuk & Northwestern R. R. Co. no place, 1892. unpaged, 14 x 9. pap. no title-page.

52 **BISMARCK BRIDGE.** Report to A. Anderson, Engineer-in-Chief of the Northern Pacific R. R. by the Engineer and Superintendent of the bridge. G. S. Morison. no place, 1884. 44 pp., 1 + 26 pl., 14 x 22, pap.

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86 ——Specifications for the substructure of the Bismarck Bridge. Northern Pacific R. R. Co. no place, no date. unpaged, 13 x 9, pap. no title-page.

55 **BLAIR CROSSING BRIDGE.** Report to Marvin Hughitt, President of the Missouri Valley & Blair Ry. & Bridge Co., by the Chief Engineer. G. S. Morison. no place, 1886. 25 pp., 2 + 19 pl., 14 x 22, pap.

111 **BRIDGEPORT HIGHWAY BRIDGE.** Plan for a highway bridge at Bridgeport, Conn. A. P. Boller. N. Y., 1869. sheet, 18 x 33, pap. no title-page.

BUSSEY BRIDGE. Special report to the Legislature in relation to the disaster on Monday, Mar. 14th, 1887, on the Dedham Branch of the Boston & Providence R. R., at the bridge commonly known as the Bussey Bridge. Mass.-Board of Railroad Commissioners. 1887. (See Ah-9.)

54 **CAIRO BRIDGE.** Report of Stuyvesant Fish, President, to the Board of Directors, Feb. 24th, 1892; Report of George S. Morison, Chief Engineer, Oct. 1st, 1891. Chicago, St. Louis & New Orleans R. R. Co. Chic., 1892. 41 + 13 pp., 1 + 37 pl., 14 x 28 pap.

CAWNPORE BRIDGE. Railway bridge over the Ganges at Cawnpore. W. H. Maw and James Dredge. 1872. (See Fa-60, p. 145.)

37 **CHAUDIÈRE BRIDGE.** General specification and form of tender for the iron superstructure of the Chaudière Bridge. P. A. Peterson. Montreal, 1880. unpaged, pl., 13 x 8, pap.

87 **CHENANGO CANAL BRIDGE.** Plan of road-bridge; extension of Chenango Canal. no place, 1870. pl., 38 x 24, pap.

99 **COLD RIVER BRIDGE.** Drawings of Cold River Bridge, Gulf Bridge, Cheshire R. R. & Highway Bridge, at Lee, Mass. Hawkins & Burrall. Springfield, Mass., 1874. 3 pl., 22 x 38, pap.

20 **CONNECTICUT RIVER BRIDGE.** Description of the iron bridge over the Connecticut River on the Hartford & New Haven R. R.; with a brief history of iron bridges. T. G. Ellis. Hartford, Conn., 1866. 35 pp., pl., 9 x 6, pap.

CUMBERLAND VALLEY R. R. BRIDGE. Description of the Cumberland Valley R. R. Bridge across the River Susquehanna at Harrisburg. Herman Haupt. 1853. (See Fa-98, p. 237.)

96 **DONAU BRÜCKE.** Die Donaubrücke der Österr. Nordwestbahn: Vortraggehalten in Österr. Ingenieur und Architekten-Vereine. Moritz Morawitz. Wien, 1872. 23 pp., il., pl., 9 x 5, cl.

23 **ELLSWORTH AVENUE BRIDGE, PITTSBURG, PA.** Specifications for superstructure of street bridge to be erected over the Pennsylvania R. R., at Ellsworth Ave., Pittsburg. Pennsylvania R. R. Co. Phil., 1875. 4 pp., 9 x 6, pap. no title-page.

10 **FORT SNELLING BRIDGE.** Highway bridge across the Mississippi River at Fort Snelling, Minn. H. E. Horton & Co. no place, no date. sheet, 11 x 37, pap.

GENERAL.

BAKER, *SIR* BENJAMIN. Long-span railway bridges; comprising investigations of the comparative theoretical and practical advantages of the various adopted or proposed type systems of construction. 1867. (See Fe-1.)

BALTIMORE & OHIO R. R. CO. Standard specifications for iron and steel bridges and viaducts. 1894. (See Fa-40.)

8 **BENDER, CHARLES.** Comparison of the merits of the mode of building iron truss bridges in America with the system used in Europe. no place, 1874. 38 pp., 7 x 5, pap.

——Practical treatise on the properties of continuous bridges. (Van Nostrand's Science Ser.) 1876. (See Fe-25.)

91 ——Proportions of pins used in bridges. (Van Nostrand's Science Ser.) N. Y., 1873. 52 pp., il., pl., 6 x 4, bds.

BERG, L. DE C. Graphical analysis of strains in trusses. 1894. (See Ja-70, v. 2, p. 136.)

——Wooden and iron trusses. 1894. (See Ja-70, v. 2, p. 179.)

BOLLER, A. P. Description of the various forms of truss bridges. 1876. (See Fa-7, p. 35.)

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17 **VAN BUREN BRIDGE.** St. Louis & San Francisco Ry. Bridge, at Van Buren, Ark. Note: Bound Volume of photographs illustrating the construction of the bridge. no place, 1895. 2 pp., 48 phot., 7 x 11, ¾ mor. no title-page.

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——Same; 1849. Wash., 1849. 1 v., 7 x 5, b. p. Af-3, p. 768.

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——Report of the Secretary. Note: A partial report of the operations of the Navy during the Mexican War. 1848. (See Zj-64, p. 225.)

99 ——Report of the Secretary; 1863, '65-72, '75, '77, '85, v. 1, '86. Wash., 1863-86. 13 v., pl., maps, tab., 9 x 6, cl.

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——Report of the Secretary in answer to a resolution of the Senate, communicating information in regard to the naval power of each maritime nation of the world, with the tonnage, number of merchant ships, and aggregate commerce of each. (29th Cong., 1st Sess. Senate No. 187.) no place, 1846. 19 pp., 9 x 6, b. p. no title-page. Cc-96, p. 333.

——Rules for the inspection and measurement of timber for the navy of the United States; adopted by the Bureau of Construction, Equipment and Repairs, under the authority of the Secretary of the Navy, Sept., 1848. Wash., no date. 14 pp., il., pl., 8 x 5, b. p. Yh-146, p. 285.

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30 **YACHTMAN'S ANNUAL GUIDE AND NAUTICAL CALENDAR; 1897.** Bost., 1897. 1 v., 10 x 7, pap.

4 **YOUNG, J. R.** Navigation and nautical astronomy, in theory and practice: with attempts to facilitate the finding of the time and the longitude at sea. Lond., 1858. 7 + 280 pp., 7 x 4, cl.

5 ——Tables intended to facilitate the operations of navigation and nautical astronomy; as an accompaniment to the Navigation and Nautical Astronomy, vols. 99 and 100 of the Rudimentary Series. Lond., 1859. 50 + 136 pp., 7 x 4, cl.

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6 ——Specifications for a dry dock for the United States Government, at Boston. U. S.-Bureau of Yards and Docks. no place, 1898. 12 pp., 14 x 8, pap. no title-page.

20 **BROOKLYN NAVY YARD.** Documents relating to the construction of the Brooklyn Dry Dock. W. J. McAlpine. no place, 1850. 587 pp., 14 x 8, ½ cf. no title-page. manuscript.

——Documents relating to the purchase of the land lying between the Naval Hospital and Navy Yard, Brooklyn, N. Y., and in relation to the dry-dock at Brooklyn. U. S.-Navy Department. (30th Cong., 1st. Sess. House misc. doc. No. 71.) Wash., 1848. 8 pp., 9 x 6, b. p. no title-page. Cc-96, p. 567.

——History of the commencement and progress of the United States dry-dock at the Brooklyn Navy Yard. no place, no date. pp. 392-405, 9 x 6, b. p. Ag-286, p. 492.

——Letter of the Secretary upon the subject of establishing navy yards at Great Barn Island, Perth Amboy, and Jersey City. U. S.-Navy Department. (24th Cong., 2d Sess. House doc. No. 18.) Wash., 1836. 10 pp., 9 x 6, b. p. no title-page. Cc-96, p. 1.

——Letter to the Mayor of New York on establishing a navy yard at Great Barn Island in the East River. J. W. Swift and W. G. M'Neill. (25th Cong., 2d Sess. House doc. No. 222.) no place, 1838. 4 pp., 9 x 6, b. p. no title-page. Cc-96, p. 11.

——Memorial and resolutions relative to the survey of the waters within the Harbor of New York, for the establishment of a navy-yard. New York-Common Council. (28th Cong., 1st Sess. House doc. No. 172.) no place, 1844. 2 pp., 9 x 6, b. p. no title-page. Cc-96, p. 105.

21 ——Miscellaneous memoranda relating principally to the construction of the United States dry dock at Brooklyn, N. Y.; with notes on iron dock-gates. W. J. McAlpine. no place, 1847 (?) 805 pp., il., 13 x 9, ½ cf. no title-page. manuscript.

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——Proposals for steam engine and pumps for dry dock, New York. U. S.-Bureau of Yards and Docks. Wash., 1849. 6 pp., 9 x 6, b. p. no title-page. Aj-1, p. 513.

——Report relative to the construction of a dry dock in New York Harbor, upon the plan of using, as an elevating power, the water of the Croton Aqueduct . . . and also the several petitions . . . praying that all further appropriation for building a dry dock be withheld until a proper examination shall be had of the various docks offered to the Navy Department in 1842. (28th Cong., 1st Sess. House rep. No. 198.) no place, 1844. 15 pp., 9 x 6, b. p. no title-page. Cc-96, p. 107.

——Report upon the subject of a dry dock at Brooklyn, in the State of New York. U. S.-Navy Commissioners. (25th Cong., 2d Sess. House doc. No. 298.) Wash., 1838. 4 pp., 9 x 6, b. p. no title-page. Cc-96, p. 15.

——Specifications for the construction of the wrought-iron floating caisson and the wrought-iron folding gates for the United States dry dock at the Brooklyn Navy Yard. W. J. McAlpine. N. Y., 1849. 27 pp., 9 x 6, b. p. Aj-1, p. 451.

——Speech on the Navy Appropriation Bill, which passed the House of Representatives on the 29th day of Jan., 1847. H. I. Seaman. Note: Speech relative to the appropriation of 275 000 dollars for the dry dock at the Brooklyn Navy Yard. no place, 1847. 7 pp., 9 x 6, b. p. no title-page. Cc-96, p. 393.

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GENERAL.

ALLEN, HORATIO. Statement before the Naval Committee of the House of Representatives, establishing the superior stability of the sectional dock over that of the balance dock, and its superior advantages for naval purposes. Wash., 1846. 11 pp., 9 x 6, b. p. Cc-96, p. 301.

——Summary comparison of the stone dock with the sectional floating dock, when used in combination with a basin and arrangements to place ships on shore. Wash., 1846. 14 pp., 9 x 6, b. p. Cc-96, p. 313.

BRIEF SKETCH OF THE PLAN AND ADVANTAGES OF A SECTIONAL floating dry dock, combined with a permanent stone basin and platform, and connected with level bedway, sliding ways, and housed slips, for repairing, launching and laying up in ordinary, the ships of the United States Navy. N. Y., 1845. 44 pp., pl., 9 x 6, b. p. Cc-96, p. 257.

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——Evidence and argument in support of the memorial for the construction of the galvanized iron balance dock, for the use of the Government. no place, 1846. 32 pp., pl., 9 x 6, b. p. Cc-96, p. 361.

9 **LATIMER, CLARK & STANDFIELD.** Patent gridiron stage and depositing dock. Lond., no date. unpaged. il., 10 x 8, pap.

11 **LITTLE, J. J.** Report on the American system of dry docks. N. Y., 1882. 64 pp., 9 x 6, pap.

24 **MONCRIEFF, J. M.** Design and construction of dock-gates of iron and steel. Lond., 1894. 15 pp., pl., 9 x 5, pap.

10 **NYSTROM, J. W.** Description of a hydraulic pontoon-dock. St. Petersburg, 1859. 14 pp., pl., 10 x 9, pap.

1 **UNITED STATES—NAVY DEPARTMENT.** Report on European dock yards; by Philip Hichborn, U. S. N. Wash., 1886. 96 pp., 47 pl., 9 x 6, ¾ mor.

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12 **HALIFAX, N. S.** Preliminary report on the proposed Halifax Dry Dock; and report on American stone and wooden docks. E. H. Keating. Halifax, 1883. 26 pp., 9 x 6, pap.

8 **MARE ISLAND NAVY YARD.** Notes on the dry dock and coffer-dam at the Navy Yard, Mare Island, Cal. Otto Von Geldern. no place, 1890. 20 pp., 5 pl., 10 x 7, pap.

NEW YORK NAVY YARD. See Brooklyn Navy Yard.

2 **NORFOLK NAVY YARD.** History of the United States Navy Yard at Gosport, Va., near Norfolk; by Edward P. Lull. U. S.-Bureau of Yards and Docks. Wash., 1874. 64 pp., 3 pl., 9 x 6, cl.

PENSACOLA NAVY YARD. Letter from the Secretary upon the subject of a dry dock and naval station at Pensacola, or some other place in the Gulf of Mexico. U. S.-Navy Department. (26th Cong., 1st Sess. House doc. No. 200.) Wash., 1840. 7 pp., 9 x 6, b. p. no title-page. Cc-96, p. 19.

——Letter of the Secretary transmitting a report of officers and engineers relative to the properties and advantages of a dry dock at Pensacola and at Portsmouth, N. H. U. S.-Navy Department. (28th Cong., 2d Sess. House doc. No. 163.) Wash., 1845. 79 + 7 pp., 9 x 6, b. p. Cc-96, p. 143.

17 ——Notes of communications made at Pensacola Navy Yard between Dec., 1865, May, 1867. J. P. Kirkwood. Note: Contains diary fr. July 6th, 1871, to Jan. 24th, 1877. no place, no date. unpaged, 9 x 8, ¾ ro. manuscript.

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——Report of the Secretary communicating plans and estimates for the construction of a permanent wharf and dry dock at Pensacola. U. S.-Navy Department. (28th Cong., 1st Sess. Senate doc. No. 134.) Wash., 1844. 21 pp., 9 x 6, b. p. Cc-96, p. 81.

——Report of the Secretary in relation to the construction of floating dry docks at Pensacola, Philadelphia and Kittery. U. S.-Navy Department. (30th Cong., 1st Sess. Senate ex. doc. No. 11.) Wash., 1847. 152 pp., pl., 9 x 6, b. p. Cc-96, p. 399.

PHILADELPHIA NAVY YARD. Report of the Committee to whom was referred the report of the Secretary of the Navy, on the subject of floating dry-docks, basin and railways at the navy-yards at Kittery, Philadelphia and Pensacola. U. S.-Committee on Naval Affairs. (30th Cong., 1st Sess. House rep. No. 106.) no place, 1848. 7 pp., 9 x 6, b. p. no title-page. Cc-96, p. 557.

——Report of the Naval Committee, to whom was referred sundry memorials and petitions from the inhabitants of Philadelphia, and of Kittery, Me., asking appropriations for the erection of dry docks at those two places. U. S.-Committee on Naval Affairs. (28th Cong., 1st Sess. House rep. No. 394.) no place, 1844. 4 pp., 9 x 6, b. p. Cc-96, p. 123.

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——Report on sundry memorials and petitions of the citizens of Philadelphia City and County, and the citizens of Delaware County, Pa., asking for an appropriation for the erection of a dry dock at the Navy Yard at the Port of Philadelphia. U. S.-Committee on Naval Affairs. (29th Cong., 1st Sess. House rep. No. 111.) no place, 1846. 2 pp., 9 x 6, b. p. no title-page. Cc-96, p. 353.

——Report on the memorial of the people of the City and County of Philadelphia, praying for the construction of a dry dock at the Navy Yard of that port. U. S.-Committee on Commerce. (29th Cong., 1st Sess. House rep. No. 253.) no place, 1846. 4 pp., 9 x 6, b. p. no title-page. Cc-96, p. 329.

3 **PORTSMOUTH NAVY YARD.** History of the United States Navy Yard, Portsmouth, N. H.; prepared by George Henry Preble. U. S.-Bureau of Yards and Docks. Wash., 1892. 219 pp., map, 9 x 6, pap.

——Letter of the Secretary transmitting a report of officers and engineers relative to the properties and advantages of a dry dock at Pensacola and at Portsmouth, N. H. U. S.-Navy Department. (28th Cong., 2d Sess. House doc. No. 168.) Wash., 1845. 79 + 7 pp., 9 x 6, b. p. Cc-96, p. 143.

——Report of the Committee to whom was referred the report of the Secretary of the Navy, on the subject of floating dry docks, basin and railways at the navy yards at Kittery, Philadelphia and Pensacola. U. S.-Committee on Naval Affairs. (30th Cong., 1st Sess. House rep. No. 106.) no place, 1848. 7 pp., 9 x 6, b. p. no title-page. Cc-96, p. 557.

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15 **PUGET SOUND NAVAL STATION.** Specifications for a dry dock for the United States Government, at Puget Sound, Wash. U. S.-Bureau of Yards and Docks. no place, 1892 (?) 12 pp., pl., 14 x 8, pap.

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SPECIFICATIONS, ETC., WITH DESCRIPTION, MATERIALS, ETC., OF THE Scharf asphaltic, the Scrimshaw patent concrete, the Belgian, the improved Belgian, the Miller wood, the Fisk concrete, the improved Nicolson pavements. no date. (See Ne-22.)

5 **TRUE SYSTEM OF WOOD PAVEMENT.** Lond., 1877. 23 pp., il., 8 x 5, pap.

UNITED STATES. Wood-block pavements; use in the United States. W. P. Judson. 1894. (See Na-23, p. 13.)

MUNICIPAL REPORTS.*

O

a15 ALBANY, N. Y.

3.1 Board of Contract and Apportionment. Proceedings; 1883–91. Albany, 1885–92. 8 v., 9 x 6, sh.

2.1 City Engineer. Annual report; 1891–94, '96–1900. Albany, 1892–1900. 9 v., pl., 9 x 6, pap.

a20 ALLEGHENY, PA.

City Engineer. Annual reports of the City Engineer, the Committee on Streets and Sewers, and the Street Commission of the Eastern District; 1875. Allegheny, 1875. 1 v., 9 x 6, b. p. Dc-191, p. 1.

2.1 Councils. Annual reports of the various officers and standing committees; 1874, '79. Pittsburg, 1875–80. 2 v., pl., 9 x 6, cl.

a25 ALTOONA, PA.

2.1 City Engineer. Annual report; 1891–92. Altoona, 1892–93. 2 v., tab., 8 x 5, pap.

a30 ATCHISON, KAN.

2.1 Council. Reports of the City Officers; 1888–89. Atchison, 1889–90. 2 v., 9 x 6, pap.

b5 BALTIMORE, MD.

2.1 City Commissioner. Annual report to the Mayor and City Council; 1890–92. Balt., 1891–93. 3 v., tab., 9 x 6, pap.

3.1 Mayor. Message to the City Council; 1891–92. Balt., 1891–92. 2 v., 9 x 6, pap.

b15 BELLEVILLE, ILL.

2.1 Revised ordinances of the City of Belleville; together with the general laws of the State of Illinois relating to cities, and special ordinances of the city relating to the issuing of city bonds for various purposes, and the refunding of city debts, and to sewers, street railways, etc.; rev. and comp. by Wilderman & Hamill. Belleville, 1879. 210 pp., 9 x 5, pap.

b20 BINGHAMTON, N. Y.

2.1 City Engineer. Report; 1892, '94. Binghamton, 1893–95. 2 v., tab., 9 x 6, pap.

b25 BLOOMFIELD, N. J.

2.1 Township Committee. Report; Apr., 1893–94. Bloomfield, 1894. 1 v., 8 x 6, pap.

b30 BLOOMINGTON, ILL.

2.1 City Officers. Annual reports; Apr., 1874–81. Bloomington, 1875–81. 7 v., tab., 9 x 6, pap.

b35 BOSTON, MASS.

1.1 Annexation Commission. Report by the Commissioner appointed to investigate the subject of the annexation of certain neighboring cities and towns to the City of Boston. Bost., 1873. 131 pp., 9 x 6, pap.

2.1 Auditor of Accounts. Annual report of the receipts and expenditures of the City of Boston and the County of Suffolk, State of Massachusetts; May, 1872–79. Bost., 1873–79. 6 v., 9 x 6, cl.

4.1 City Council. Municipal register; containing the City Charter, the rules and orders of the City Council, and a list of officers of the City of Boston; 1873–79. Note: Registers, 1876–78 wanting. Bost., 1873–79. 5 v., pl., 9 x 6, cl.

3.1 Engineering Department. Annual report; 1870–93. Bost., 1871–94. 22 v., pl., tab., 9 x 6, pap.

7.1 Fire Commission. Report of the Commissioners appointed to investigate the cause and management of the great fire in Boston. Bost., 1873. 24 + 662 pp., 9 x 6, pap.

5.1 Fire Department. Annual report; 34th–35th; 1871–72. Bost., 1872–73. 2 v., 9 x 6, cl.

——Same; 13th; 1867. 1 v., 9 x 6, b. p. Dc-489, v. 3, p. 331.

6.1 Street Department. Annual report; 1892–94. Bost., 1893–95. 3 v., pl., tab., 9 x 6, cl.

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* NOTE.—Reports relating exclusively to one subject have been classed, wherever possible, with that subject.

O—(*Continued*).

b40 BRIDGEPORT, CONN.

2.1 Municipal register; containing a list of city officers and committees, messages of the Mayor, members of the several boards, reports and other public documents; 1886–89. Bridgeport, 1886–89. 4 v., 9 x 6, pap.

b45 BROOKLYN, N. Y.

Act to amend "An act to revise and amend the several acts relating to the City of Brooklyn," passed June 19th, 1851. New York-Legislature. 6 pp., 9 x 6, b. p. no title-page. Dc-429, p. 515.

2.1 Department of City Works. Annual report of the Commissioner; 1872–75, '77–91, '94–95. Brooklyn, 1873–96. 21 v., il., pl., maps, tab., 9 x 6, pap.

Mayor. Communication to the Common Council; 1851–52. Brooklyn, 1852–53. 2 v., 9 x 6, b. p. Dc-429, pp. 487, 523.

——Same; 1852–53. 2 v., 9 x 6, b. p. Dc-434, p. 787.

b50 BUFFALO, N. Y.

4.1 Bureau of Engineering. Annual report; 2d; 1893. Buffalo, 1894. 1 v., tab., 9 x 6, pap.

2.1 City Engineer. Annual report; 1885–86. Buffalo, 1886–87. 2 v., tab., 9 x 6, pap.

5.1 ——Same; 1874–77, '80–86. Buffalo, 1875–86. 10 v., pl., maps, tab., 9 x 6, b. p.

3.1 Common Council. Manual. Buffalo, 1881. 62 pp., 6 x 4, pap.

6.1 Department of Public Works. Annual report; 1894–98. Buffalo, 1895–99. 5 v., tab., 9 x 6, pap.

5.1 Mayor. Annual message; 1878–80. Buffalo, 1879–80. 2 v., 9 x 6, b. p.

b55 BURLINGTON, IA.

2.1 Annual reports of the City Officers; Mar., 1874–75, '91–94. Burlington, 1875–94. 4 v., 9 x 6, pap.

b57 BURLINGTON, VT.

2.1 Annual report of the City Government; 7th–18th; 1871–82. Note: Reports Nos. 10–11, 15 wanting. Burlington, 1872–83. 9 v., 9 x 6, pap.

b65 BUTTE, MONT.

2.1 City Engineer. Annual report; 1st. Note: Contains a brief summary of the work accomplished in the ten preceding years by the Engineering Department. Butte City, 1890. 1 v., 8 x 6, pap.

c5 CAMBRIDGE, MASS.

1.1 The Cambridge of eighteen hundred and ninety-six: A picture of the city and its industries fifty years after its incorporation; done by divers hands under the direction of a Committee of the City Government and citizens. Arthur Gilman, ed. Cambridge, 1896. 20 + 424 pp., por., pl., 10 x 6, cl.

2.1 City Engineer. Annual report to the City Council; 1873, '85–86, '89–95. Cambridge, 1874–95. 10 v., pl., tab., 9 x 6, pap.

——Same; 1874. 1 v., 9 x 6, b. p. Dc-187, p. 145.

3.1 Mayor. Address at the organization of the City Government and the annual reports made to the City Council; 1867–85. Note: Address and reports, 1868–72 wanting. Cambridge, 1868–86. 14 v., pl., tab., 9 x 6, cl.

c10 CAMDEN, N. J.

2.1 Street Department. Annual report of the City Surveyor and Supervisor of Streets and Highways; 3d; 1889. Camden, 1890. 1 v., 9 x 6, pap.

c15 CANTON, OHIO.

2.1 Reports of the City Officials: Mar., 1892–93. Canton, 1893. 1 v., il., por., tab., 10 x 7, pap.

c25 CHAMBERSBURG, PA.

2.1 Revised edition of acts of Assembly and Borough ordinances, relating to the Borough of Chambersburg, together with a brief history of the town from its foundation to the present time. Chambersburg, 1877. 170 + 10 pp., 9 x 6, pap.

c30 CHARLESTON, S. C.

3.1 City Council. The centennial of incorporation, 1783–1883. Charleston, 1884. 259 pp., pl., maps, facsim., 10 x 6, cl.

2.1 Mayor. Year book; 1886. Charleston, 1886. 1 v., pl., maps, facsim., 9 x 6, cl.

c35 CHICAGO, ILL.

3.1 Board of Public Works. Annual report to the Common Council; 5th–15th; 1865–75. Note: Report 6th, 1866 wanting. Chic., 1866–76. 10 v., pl., 9 x 6, pap.

——Same: 1st–2d, 5th, 8th; 1861–63, '66, '69. 4 v., 9 x 6, b. p. Dc-471, p. 175.

——Same; 3d–4th; 1864–65. 2 v., 9 x 6, b. p. Dc-467, p. 297.

2.1 Mayor. Annual message and the Annual report of the Department of Public Works to the City Council; 1st–21st, 23d; 1876–96, '98. Chic., 1877–99. 21 v., il., pl., maps, por., tab., 9 x 6, pap.

O—(*Continued*).

c40 **CHICOPEE, MASS.**

2.1 Annual reports of the Town Officers; 1890. Chicopee, 1891. 1 v., 9 x 6, pap.

c45 **CINCINNATI, OHIO.**

City Civil Engineer. Annual report; 9th; 1866. Cin., 1866. 1 v., 9 x 6, b. p. Dc-465, p. 90.

2.1 City Council. Annual reports; 1866. Cin., 1867. 1 v., 9 x 6, cl.

c50 **CLEVELAND, OHIO.**

2.1 City Civil Engineer. Annual report; 1890. Cleveland, 1891. 1 v., 9 x 6, pap.

3.1 City Council. Reports of the Departments of the government of the city; together with the Annual message of the Mayor; 1865–66, '67–68, '77. Cleveland, 1866–78. 3 v., tab., 9 x 6, pap.

4.1 Department of Public Works. Annual report; 1891–92. Cleveland, 1892–93. 2 v., 9 x 6, pap.

Mayor. Address to the City Council, also financial statement; reports of various departments; 1863, '65–66. Cleveland, 1863–66. 3 v., 8 x 5, b. p. Dc-482, p. 8.

c60 **COLUMBUS, OHIO.**

2.1 City Civil Engineer. Annual report to the City Council; 1889. Columbus, 1890. 1 v., 9 x 6, pap.

c65 **CONCORD, N. H.**

City Council. Annual report of the receipts and expenditures of the City of Concord; together with other annual reports and papers relating to the affairs of the city; 23d; 1876. Concord, 1876. 1 v., 9 x 6, b. p. Dc-186, p. 267.

2.1 City Engineer. Report; 1893. Concord, 1894. 1 v., 9 x 6, pap.

c70 **COVINGTON, KY.**

2.1 Fire Department. Annual report; 13th-15th; June, 1876–79. Covington, 1877–79. 3 v., 9 x 6, pap.

d10 **DANVERS, MASS.**

2.1 Selectmen. Statement of the accounts of the Town of Danvers; 1877. Danvers, 1878. 1 v., 9 x 6, pap.

d20 **DECATUR, ILL.**

2.1 Annual reports of the City Officers; 1877, '79. Decatur, 1878–80. 2 v., 8 x 5, pap.

d30 **DES MOINES, IA.**

2.1 City Engineer. Annual report to the City Council; 1st-2d; 1885–86. Des Moines, 1886–87. 2 v., maps, tab., 10 x 7, pap.

d60 **DULUTH, MINN.**

3.1 Board of Public Works. Annual report; 1st-11th; 1887–97. Duluth, 1888–98. 11 v., pl., maps, tab., 9 x 6, pap.

2.1 Mayor. Annual message; 1898. no place, no date. 1 v., 9 x 6, pap. no title-page.

e10 **EAST SAGINAW, MICH.**

2.1 Board of Public Works. Annual report to the Common Council; 1st-5th; 1885–89. East Saginaw, 1886–90. 5 v., tab., 8 x 6, pap.

e15 **EASTON, PA.**

2.1 City Engineer. Annual report; 1895. Easton, 1896. 1 v., pl., 9 x 6, pap.

3.1 Mayor. Messages, Controller's statement and Department reports; Mar., 1894–95. Easton, 1895. 1 v., 9 x 6, pap.

e35 **ENOSBURGH, VT.**

2.1 Annual report of the Officers of the Town of Enosburgh; 1889. Enosburgh Falls, 1890. 1 v., 7 x 5, pap.

e45 **ERIE, PA.**

2.1 Councils. Annual reports for the year ending Apr., 1893. Erie, 1893. 1 v., 9 x 6, pap.

e55 **EVERETT, MASS.**

2.1 Annual report of the Town Officers; 8th, 10th; 1877, '79. Bost., 1878–80. 2 v., 9 x 6, pap.

f10 **FALL RIVER, MASS.**

2.1 Mayor. Inaugural address and reports; 1877. Fall River, 1877. 1 v., 8 x 5, pap.

——Same; 1871. 1 v., 9 x 6, b. p. Dc-484, p. 285.

f25 **FITCHBURG, MASS.**

2.1 City Engineer. Annual report; 19th–23d, 27th; 1891–95, '99. Fitchburg, 1892–99. 6 v., 9 x 6, pap.

a1 **GENERAL.**

Boulnois, H. P. Municipal engineering. (International Cong. of Hygiene and Demography, 7th.) 1891. (See Eg-52, p. 31.)

1 Croes, J. J. R. Municipal engineers: Books in current literature that have interest and value for them; reviewed for the *New York Times Saturday Review*. no place, 1899. unpaged, 9 x 8, pap. newspaper slips.

O—(*Continued*).

a1 GENERAL—(*Continued*).

2 McCullough, Ernest. Public works: A treatise on subjects of interest to municipal officers. Petaluma, 1894. 54 pp., 9 x 6, pap.

Malézieux, Emil. Les travaux municipaux des États-Unis. 1873. (See Cc-169, p. 458.)

g25 GLOVERSVILLE, N. Y.

2.1 Common Council. Annual reports; 1890-93. Gloversville, 1891-93. 2 v., tab., 9 x 6, pap.

3.1 Engineering and Street Department. Annual report; 2d-3d, 5th-6th; 1891-92, '94-95. Gloversville, 1892-96. 4 v., pl., tab., 9 x 6, pap.

g50 GRAND RAPIDS, MICH.

3.1 Board of Public Works. Annual Report to the Common Council; Apr., 1877-82, '83-85, '94-95. Grand Rapids, 1878-95. 8 v., 9 x 6, pap.

3.2 ——Rules and regulations made by the Board; amended Apr. 29th, 1875, and amended May 12th, 1877. Grand Rapids, 1877. 14 pp., 6 x 3, pap.

2.1 City Engineer. Report; 1874-76. no place, 1875-76 (?) 2 v., 9 x 5, pap.

——Same; 1873-75. 1 v., 9 x 6, b. p. Dc-193, p. 827.

h5 HALIFAX, N. S.

2.1 Annual report of the several departments of the City Government; 1876-79. Halifax, 1878-80. 3 v., pl., 9 x 6, pap.

h10 HAMILTON, ONT.

2.1 Financial statement of the Municipal Corporation; 1876-77. Hamilton, 1877-78. 2 v., 9 x 6, pap.

h15 HARRISBURG, PA.

2.1 Department reports; 1876-89. Harrisburg, 1877-90. 2 v., 9 x 6, pap.

h20 HARTFORD, CONN.

2.1 Board of Street Commissioners. Annual report to the Court of Common Council; 14th-15th, 18th; 1885-86, '89. Hartford, 1886-90. 3 v., 9 x 6, pap.

h23 HAVANA, CUBA.

2.1 Military Governor. Annual report; June, 1898-99. no place, 1899. 1 v., pl., maps, 10 x 6, pap.

2.2 ——Remarks on the industrial, economic and social conditions existing in the Department of Havana; made pursuant to instructions of Aug. 18th, 1899, from the Division Commander; by William Ludlow. Havana, 1899. 19 pp., 10 x 6, pap.

h25 HAVERHILL, MASS.

2.1 City Engineer. Annual report; 2d-9th; 1888-95. Haverhill, 1889-96. 8 v., pl., 9 x 6, pap.

h35 HINGHAM, MASS.

2.1 Selectmen. Report on the financial affairs of the town; 1875. Hingham, 1876. 1 v., 9 x 6, pap.

h45 HOBOKEN, N. J.

2.1 City ordinances now in force, passed by the Mayor and Council of the city from Mar. 28th, 1855, to Jan. 1st, 1872. Hoboken, 1872. 220 pp., 9 x 6, pap.

h50 HOLYOKE, MASS.

2.1 City Engineer. Annual report; 1890-93. Holyoke, 1891-94. 4 v., 9 x 6, pap.

h60 HYDE PARK, ILL.

2.1 Board of Trustees. Annual message of the President and reports of the various officers and heads of departments; Apr., 1882-83. Chic., 1883. 1 v., pl., maps, 9 x 6, mor.

i35 INDIANAPOLIS, IND.

2.1 Department of Public Works. Annual report of the Board; 2d-4th; 1892-94. Indianapolis, 1893-95. 3 v., pl., tab., 9 x 6, pap.

j5 JACKSONVILLE, ILL.

2.1 City Clerk. Report: Statement of the finances; also, the report of Water Commissioners; Mar., 1874-80. Jacksonville, 1875-80. 3 v., 9 x 6, pap.

j15 JERSEY CITY, N. J.

2.1 Board of Public Works Annual report of Chief Engineer; 1871-75, '77-79, '81. Jersey City, 1872-82. 9 v., pl., phot., maps, tab., 9 x 6, pap.

k10 KALAMAZOO, MICH.

2.1 Board of Trustees. Annual reports of Kalamazoo; Apr., 1874-77, '79-80, '81-82. Kalamazoo, 1876-82. 5 v., tab., 8 x 6, pap.

k15 KANSAS CITY, MO.

5.1 Board of Public Works. Annual report to the Common Council: 1st-5th; 1889-93. Kansas City, 1889-94. 5 v., pl., tab., 9 x 6, pap.

O—(*Continued*).

k15 KANSAS CITY, MO.—(*Continued*).

4.1 City Comptroller. Semi-annual report; together with report of City Engineer, submitted to Mayor and Common Council; 6th, 8th, 12th, 16th; Dec., 1882, '83, '85, '87. Kansas City, 1883-88. 4 v., pl., map, tab., 9 x 6, pap.

2.1 City Engineer. Annual report; 1883-84, '86, '88. Kansas City, 1884-89. 4 v., pl., maps, tab., 9 x 6, pap.

3.1 Common Council. Charter amendments, adopted Feb. 27th, 1892. Kansas City, 1892. 51 pp., 9 x 6, pap.

k20 KEENE, N. H.

2.1 City Councils. Annual report of the city; with reports of the several departments; 1st-6th; 1874-79. Keene, 1875-80. 6 v., 9 x 6, pap.

KEOKUK, IA.

Mayor. Inaugural address, delivered Apr. 10th, 1855. Keokuk, 1855. 20 pp., 9 x 6, b. p. Cc-382, p. 693.

l4 LACONIA, N. H.

2.1 City Council. Annual report of the receipts and expenditures of the city; 1st; Feb., 1894. Laconia, 1894. 1 v., 9 x 6, cl.

3.1 Officers. Annual report; 1892. Laconia, 1893. 1 v., 9 x 6, pap.

l10 LAFAYETTE, IND.

2.1 City Engineer. Reports to the Common Council; 1876. no place, 1877. 1 v., 9 x 6, pap.

l15 LAWRENCE, MASS.

2.1 City Engineer. Annual report; 12th; 1889. Lawrence, 1890. 1 v., 9 x 6, pap.

l20 LENOX, MASS.

2.1 Annual report of officers; 1891. Pittsfield, 1892. 1 v., 9 x 6, pap.

l30 LINCOLN, MASS.

2.1 Report of the officers of the town; Feb., 1877-78. Bost., 1878. 1 v., 9 x 6, pap.

l40 LONDON, ENG.

2.1 Commissioners of Sewers. Report of works executed; by the Engineer and Surveyor to the Commission; 1871-86, '91-94. Lond., 1872-95. 20 v., 8 x 5, pap.

——Report to the Special Committee upon Improvements, on the traffic and improvements in public ways of the City of London, by William Haywood, Engineer and Surveyor to the Commission. Lond., 1866. 112 pp., map, 8 x 5, b.p. Ee-12, p. 13.

3.1 Metropolitan Board of Works. Report; 1864-67, '72. Lond., 1866-73 (?) 4 v., tab., 13 x 9, pap.

1.1 Report, with appendix, index and plans; 2d; 1838. Great Britain-Select Committee on Metropolis Improvements. no place, 1838. 1 v., pl., 13 x 9, b. p.

l45 LOS ANGELES, CAL.

2.1 Municipal reports; 1891. Los Angeles, 1892. 1 v., maps, 8 x 6, pap.

l55 LYNCHBURG, VA.

2.2 City Council. Ordinances of the City of Lynchburg, adopted 29th June, 1872; and amended City Charter, approved 6th Mar., 1872. Lynchburg, 1873. 207 pp., 9 x 6, pap.

2.1 ——Reports of the Standing Committees of the Council; July, 1875-76. Lynchburg, 1876. 1 v., 9 x 6, pap.

l60 LYNN, MASS.

2.1 City Engineer. Annual report; 1888-95. Lynn, 1889-96. 8 v., map, tab., 9 x 6, pap.

m5 MALDEN, MASS.

2.1 Board of Street Commissioners. Reports; 1893. Bost., 1894. 1 v., pl., 9 x 6, pap.

m10 MANCHESTER, N. H.

2.1 City Engineer. Annual report; 1886, '88-89, '95. Manchester, 1887-96. 4 v., tab., 9 x 6, pap.

m15 MARLBOROUGH, MASS.

2.1 City Engineer. Report; 1892. Marlborough, 1893. 1 v., 9 x 6, pap.

m25 MEMPHIS, TENN.

1.1 Biennial report of the President of Fire and Police Commissioners to the Governor of the State; 1879-88. Shelby County, Tenn.-Taxing District. Memphis, 1881-89. 4 v., tab., 9 x 6, pap.

1.2 Fire and Police Commissioners. Biennial report to the Governor of the State; 1891-92. Memphis, 1893. 1 v., 9 x 6, pap.

m30 MERIDEN, CONN.

2.1 Mayor. Message, and annual reports of the several departments; 1878-79. Meriden, 1878-79. 2 v., 9 x 6, pap.

O—(*Continued*).

m35 MIDDLETOWN, CONN.

2.1 Mayor. Annual message and reports of the several departments of the city; 1876, '80. Middletown, 1877–81. 2 v., 9 x 6, pap.

m40 MILWAUKEE, WIS.

4.1 Board of Public Works. Annual report; 1875–78, '82–90, '94–98. Milwaukee, 1876–99. 18 v., pl., maps, tab., 9 x 6, pap.

2.1 City Engineer. Report; 1893. Milwaukee, 1894. 1 v., pl., tab., 9 x 6, pap.

3.1 Comptroller. Annual report; 1879, '81. Note: Contains Department reports of the city. Milwaukee, 1880–82. 2 v., pl., tab., 9 x 6, pap.

m45 MINNEAPOLIS, MINN.

2.1 City Council. Annual reports; Apr., 1878–80. Minneapolis, 1879–89. 2 v., tab., 9 x 6, pap.

3.1 City Engineer. Annual report; 1891–99. Minneapolis, 1892–1900. 9 v., pl., maps, tab., 9 x 6, pap.

m55 MONTREAL, QUE.

2.1 City Council. Reports on the corporation accounts; reports of the Chiefs of departments; 1872–97. Montreal, 1873–99. 26 v., pl., phot., tab., 9 x 6, mor.

3.1 City Surveyor. Report on the various works executed by the Road Department; 1860–95. Note: Reports, 1861–62, '67, '69–70, '72–82 wanting. Montreal, 1861–96. 20 v., pl., tab., 9 x 6, pap.

n5 NASHUA, N. H.

2.1 City Engineer. Annual report; 1891. Nashua, 1891. 1 v., 9 x 6, pap.

n10 NASHVILLE, TENN.

2.1 Annual reports of the Treasurer and Recorder, Chief of Fire Department and other officers; 1877. Nashville, 1877. 1 v., 9 x 6, pap.

n15 NEW BEDFORD, MASS.

4.1 Board of Public Works. Annual report to the City Council: 4th–6th; together with the Superintendent's report to the Board; 1892–94. New Bedford, 1893–95. 3 v., tab., 9 x 6, pap.

2.1 Engineering Department. Annual report to the City Council, by the City Land Surveyor; 2d; 1894. New Bedford, 1895. 1 v., map, 9 x 6, pap.

3.1 Mayor. Address to the City Council; City Government; and Reports of Committees; 1861–62. New Bedford, 1862. 1 v., 9 x 6, pap.

n20 NEW HAVEN, CONN.

3.1 Board of Public Works. Annual reports of the Department; 1882–90. New Haven, 1883–91. 9 v., 9 x 6, pap.

2.1 Common Council. Annual book; containing lists of the officers of the city government, messages of the Mayor, reports and other public documents; 1871–74, '75–81. New Haven, 1872–82. 8 v., pl., maps, tab., 9 x 6, cl.

n25 NEW YORK, N. Y.

2.1 Common Council. Laws of the City of New York, passed by the Board of Aldermen, approved by the Mayor, June 26th, 1834–Sept. 30th, 1835. no place, no date. unpaged, 9 x 5, bds. no title-page.

2.2 ——Manual of the Corporation of the City of New York; 1861, '65. N. Y., 1861–65. 2 v., il., por., pl., maps, facsim., 7 x 5, cl.

3.1 Comptroller. Communication, transmitting report of the Auditor of Accounts, being detail of warrants drawn on the City Chamberlain for the quarter ending Dec. 31st, 1878. N. Y., 1879. 316 pp., 9 x 6, pap.

3.2 ——Report; with a statement of receipts and expenditures from Jan. 1st to May 8th, 1843, and of the receipts and investments of the Commissioners of the Sinking Fund, during the same time. N. Y., 1843. pp. 1349–1375, 9 x 5, pap.

8.1 Department of Public Works. Annual report; Apr., 1871–73; '78–79, '81, '83–84, '86–94. N. Y., 1872–95. 16 v., maps, 9 x 6, cl.

8.2 ——Report for the quarter ending Dec. 31st, 1876: Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1877; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1880; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1882; Mar. 31st, June 30th, Sept. 30th, Dec. 31st, 1885; Mar. 31st, 1895. N. Y., 1877–95. 18 v., 9 x 6, pap.

4.3 Fire Department. Proposed sea water fire pipe line for the City of New York: Reports of Chief of Department Hugh Bonner and Consulting Engineer Foster Crowell, to the Board of Fire Commissioners, 1897. no place, no date. 27 pp., 9 x 6, pap.

4.2 ——Report; 1879–82. N. Y., 1880–83. 4 v., tab., 9 x 6, pap.

4.1 ——Report of Inspector of Buildings; 1882–83. N. Y., 1883–84. 2 v., 9 x 6, pap.

5.2 Mayor. Communication transmitted to the Common Council of New York; 1869. N. Y., 1869. 1 v., 9 x 6, pap.

5.1 ——Message to the Common Council, with accompanying documents; 1871. no place, 1871. 1 v., 9 x 6, pap.

O—(*Continued*).

n25 NEW YORK, N. Y.—(*Continued*).

6.1 Metropolitan Fire Department. Annual reports of the Board of Commissioners; 1865-66. N. Y., 1867. 1 v., pl., 9 x 6, cl.

7.1 Municipal Civil Service. Annual report of the Supervisory Board of Commissioners; 2d. N. Y., 1886. 1 v., 9 x 6, pap.

1.15 Public Baths and Public Comfort Stations Committee. Report by the Mayor's Committee. N. Y., 1897. 195 + 9 pp., pl., 10 x 6, cl.

n30 NEWARK, N. J.

2.1 City Surveyor. Report; 1886-90. Note: Report, 1887 wanting. Newark, 1887-91. 2 v., pl., tab., 9 x 6, pap.

3.1 Mayor. Message, and accompanying documents; 1860. Newark, 1861. 1 v., 9 x 6, pap.

1.1 Records of the Town of Newark, New Jersey, from its settlement in 1666, to its incorporation as a city in 1836. New Jersey Historical Society, comp. Newark, 1864. 10 + 294 pp., map, 9 x 6, cl.

n35 NEWPORT, KY.

2.1 Annual reports, submitted to the City Council; 1871-73, '75-79. Cin., 1871-80. 8 v., pl., 9 x 6, pap.

n40 NEWTON, MASS.

2.1 City Engineer. Annual report; 1883-99. Bost., 1884-1900. 17 v., pl., maps, 9 x 6, pap.

n45 NORFOLK, VA.

2.1 Mayor. Message to the Select and Common Councils; together with municipal reports; 1876-77, '81-83. Norfolk, 1877-83. 4 v., 9 x 5, pap.

——Same; 1872, '74-75. Norfolk, 1873-76. 3 v., 8 x 5, b. p. Dc-980, p. 1.

n50 NORTH ADAMS, MASS.

2.1 Fire District. Annual report of the Prudential Committee; 8th, 10th-11th; 1876, '78-79. North Adams, 1877-80. 3 v., 9 x 6, pap.

n55 NORTHAMPTON, MASS.

2.1 Annual reports of Officers; 1889-90. Florence, 1890-91. 2 v., 9 x 6, pap.

o10 OGDENSBURG, N. Y.

2.1 Mayor. Annual report: Report of Treasurer, Water Commissioners, Street and Park Commissioners, Chief Engineer, Chief of Police, Board of Health and Board of Education; 1871-72, '74-77, '79-80, '88-89. Ogdensburg, 1872-89. 7 v., 9 x 6, pap.

o20 OMAHA, NEB.

2.1 City Engineer. Annual report; 1884-86, '90-94. Omaha, 1885-95. 8 v., pl., maps, tab., 9 x 6, pap.

3.1 Mayor. Municipal reports; 1888. Omaha, 1889. 1 v., tab., 9 x 6, mor.

o30 OTTAWA, ONT.

2.1 Auditor. Report; 1875. Ottawa, 1876. 1 v., 9 x 6, pap.

3.1 Corporation. Assessment roll of By Ward; 1876. Ottawa, 1876. 1 v., 9 x 6, pap.

3.2 ——Assessment roll of Wellington Ward; 1876. Ottawa, 1876. 1 v., 9 x 6, pap.

p5 PARIS, FRANCE.

1.2 Notes à l'appui du compte des dépenses de l'exercise; 1896-97. Département de la Seine. (Direction administrative de la voie publique, des eaux et des égouts.) Paris, 1897-98. 2 v., 11 x 8, pap.

1.1 Notes de l'Inspecteur Général des Ponts et Chaussées, Directeur des travaux de Paris à l'appui du budjet de l'exercise; 1878. Département de la Seine. Paris, 1878. 1 v., 10 x 8, pap.

p10 PASSAIC, N. J.

2.1 Mayor. Annual message; 1891-93. Passaic, 1891-93. 3 v., pl., tab., 9 x 6, pap.

p15 PATERSON, N. J.

2.1 City Officers. Annual reports; 1877-78. Paterson, 1878-79. 2 v., tab., 9 x 6, pap.

p20 PEORIA, ILL.

2.1 City Clerk. Statement of the finances; together with Treasurer's account; 1871-72, '74-79. Peoria, 1872-80. 8 v., 8 x 6, pap.

3.1 City Comptroller. Statement of the finances, together with reports of the various departments; 1892-93. Peoria, 1893-94. 2 v., 9 x 6, pap.

4.1 Department of Public Works. Annual report; 1894. Peoria, 1895. 1 v., tab., 9 x 6, pap.

p25 PHILADELPHIA, PA.

3.1 Bureau of Highways. Annual report; 1888-92. Note: Report, 1889 wanting. Phil., 1889-93. 4 v., tab., 9 x 6, pap.

7.1 Bureau of Surveys. Annual report; 1887-99. Note: Report, 1897 wanting. Phil., 1888-1900. 12 v., pl., tab., 9 x 6, cl.

O—(*Continued*).

p25 PHILADELPHIA, PA.—(*Continued*).

5.1 Department of Highways. Report of the Chief Commissioner; 1883. Phil., 1884. 1 v., 9 x 6, pap.

8.1 Department of Surveys. Annual report of the Chief Engineer and Surveyor; 1866, '73-74, '83-86. Phil., 1867-87. 7 v., 9 x 6, pap.

6.1 Mayor. Annual message; with annual reports of the Departments; 1893-99. Phil., 1894-1900. 27 v., pl., maps, tab., 9 x 6, mor.

p28 PITTSBURG, PA.

1.1 Notas interesantes acerca de Pittsburg. Pittsburg Chamber of Commerce. Pittsburg, 1889. unpaged, pl., 14 x 11, cl.

p30 PITTSFIELD, MASS.

2.1 Reports of the Water Commissioners, Prudential Committee and Commissioners of Main Drains, etc.; Apr., 1869-75, '77-79. Pittsfield, 1869-79. 10 v., 9 x 6, pap.

——Same; 1876. 1 v., 9 x 6, b. p. Dc-190, p. 417.

p35 PLYMOUTH, MASS.

2.1 Town Officers. Annual report; 1876-78. Plymouth, 1877-79. 3 v., 9 x 6, pap.

p40 PORT HURON, MICH.

2.1 Board of Public Works. Charter; also, the by-laws, rules and regulations and tariff of water rates adopted by the Commissioners. Port Huron, 1873. 31 pp., 9 x 6, pap.

p45 PORTLAND, ME.

2.1 Auditor. Annual report of the receipts and expenditures; 17th; with the Mayor's address and annual reports of the several departments, made to the City Council; 1875. Portland, 1876. 1 v., 9 x 6, cl.

3.1 City Engineer. Annual report; 1890-1894. Portland, 1891-94. 4 v., 9 x 6, pap.

4.1 Mayor. Address at the organization of the City Government, for the municipal year 1885-86. Portland, 1885. 1 v., 9 x 6, pap.

p50 POUGHKEEPSIE, N. Y.

2.1 Common Council. Annual reports of the several departments of the City Government; 1878. Poughkeepsie, 1879. 1 v., tab., 9 x 6, pap.

p55 PROVIDENCE, R. I.

3.1 Board of Public Works. Quarterly report; 3d, 5th, 7th, 15th-18th, 33d, 37th; Sept., 1888, Mar., '84, Sept., '84, Sept., '86-June, '87, Mar., '91, Mar., '92. Providence, 1883-92. 9 v., tab., 9 x 6, pap.

2.1 City Engineer. Annual report; 1872-74, '77-99. Providence, 1873-1900. 26 v., pl., maps, tab., 9 x 6, pap.

q4 QUEBEC, QUE.

2.1 City Engineer. Report; 1892-94. Quebec, 1894. 1 v., tab., 8 x 6, pap.

3.1 City Surveyor and Water-Works Engineer. Report; Apr., 1872-73. Quebec, 1873. 1 v., 9 x 5, ½ skiv.

1.1 Municipal engineering statistics. Quebec, 1896. 23 pp., tab., 9 x 6, pap.

q9 QUINCY, ILL.

2.1 Mayor. Message; together with the reports of City Officers; Mar., 1873-79. Note: Message and reports, Mar., 1874-75, '77-78 wanting. Quincy, 1874-79. 4 v., il., 9 x 6, pap.

r5 READING, PA.

2.1 Municipal reports; 1877, '87. Reading, 1878-88. 2 v., maps, 9 x 6, pap.

RICHMOND, VA.

City Engineer. Annual report; 2d; 1875. Richmond, 1875. 1 v., 9 x 6, b. p. Dc-222, p. 275.

r15 ROCHESTER, N. Y.

2.1 Executive Board. Annual report of the Board, in charge of the Departments of Water-Works, Fire, Highway and Street Improvements; 1st-23d; 1876-98. Note: Reports Nos. 9, 12-13 wanting. Rochester, 1877-98. 19 v., pl., maps, tab., 9 x 6, pap.

r20 ROCKFORD, ILL.

2.1 City Clerk. Financial statement; 1875. Rockford, 1876. 1 v., 9 x 6, pap.

3.1 Common Council. Annual reports of the City Officers; May, 1879-80. Rockford, 1880. 1 v., 8 x 6, pap.

r25 ROCKLAND, ME.

2.1 Common Council. Annual report of the City of Rockland, containing the Mayor's address and annual statements of the several departments: 36th-39th, 44th; Feb., 1889-93, '97-98. Rockland, 1890-98. 5 v., 9 x 6, pap.

s5 SAGINAW, MICH.

2.1 Board of Public Works. Annual report to the Common Council; 1st-3d; 1890-92. Saginaw, 1891-93. 3 v., pl., tab., 9 x 6, pap.

O—(*Continued*).

s15 **ST. ALBANS, VT.**

2.1 Annual report of the Town Officers; 1881, '83–92. St. Albans, 1882–92. 10 v., 9 x 6, pap.

s20 **ST. JOHNSBURY, VT.**

2.1 Reports of the Trustees, Chief Engineer of the Fire Department, Superintendent of Water-Works, and the Treasurer; 1878–79. St. Johnsbury, 1878–79. 2 v., 8 x 5, pap.

s25 **ST. JOSEPH, MO.**

2.1 City Engineer. Annual report; Apr., 1888–89. St. Joseph, 1889. 1 v., pl., 9 x 6, pap.

s30 **ST. LOUIS, MO.**

History of St. Louis, commercial statistics, improvements of the year, and account of leading manufactories, etc. St. Louis, 1854. 67 pp., map, 9 x 6, b. p. Aj-1, p. 231.

3.1 Mayor. Message, with accompanying reports of City Officers, submitted to the Common Council; Oct., 1859, May, Oct., '60, Oct., '61, May, Oct., '62, May, Oct., '63, May, Oct., '64, May, '65, Oct., '67, May, '70, Nov., '75, '78–80. St. Louis, 1859–80. 17 v., pl., tab., 9 x 6, pap.

s35 **ST. PAUL, MINN.**

3.1 Board of Public Works. Annual report; 1886–87. St. Paul, 1887–88. 2 v., pl., maps, 9 x 6, pap.

2.1 City Engineer. Annual report; 1888–94. Note: Reports, 1890, '92 wanting. St. Paul, 1889–95. 5 v., pl., maps, 9 x 6, pap.

s45 **SALEM, MASS.**

City Council. Annual reports of the several departments, committees, etc.; 1867–70. Salem, 1869–71. 3 v., 9 x 6, b. p. Dc-510, pp. 27, 427, 655.

——Same; 1865–67. 3 v., 9 x 6, b. p. Dc-511, pp. 141, 287, 473.

2.1 ——City documents; 1871–73. Salem, 1872–74. 3 v., 9 x 6, pap.

——Municipal register; containing a list of the government and officers of the City of Salem for 1870; and an historical list of members of the City Council from 1836 to 1870. Salem, 1870. 32 pp., 9 x 6, b. p. Dc-510, p. 595.

Joint Standing Committee on Accounts. Annual report of the receipts and expenditures of the City of Salem; 1866–67. Salem, 1867–68. 2 v., 9 x 6, b. p. Dc-511, p. 361.

——Same; 1867–68. 2 v., 9 x 6, b. p. Dc-509, pp. 117, 445.

——Same; 1868–70. 3 v., 9 x 6, b. p. Dc-510, pp. 117, 539, 767.

Mayor. Inaugural address to the City Council; 1865–68. Salem, 1865–68. 4 v., 9 x 6, b. p. Dc-511, pp. 37, 113, 445.

——Same; 1868–69. 2 v., 9 x 6, b. p. Dc-509, pp. 1, 331.

——Same; 1869–71. 3 v., 9 x 6, b. p. Dc-510, p. 1.

——Valedictory address to the City Council; 1870. Salem, 1870. 1 v., 9 x 6, b. p. Dc-510, p. 408.

s50 **SALT LAKE CITY, UTAH.**

2.1 Fire Department. Annual report of the Chief Engineer; 1879. Salt Lake City, 1880. 1 v., 9 x 6, pap.

3.1 Mayor. Annual message; with the annual reports of the Officers; 1890. Salt Lake City, 1891. 1 v., 9 x 6, pap.

s53 **SAN DIEGO, CAL.**

2.1 Board of Public Works. Annual report; 1890. San Diego, 1891. 1 v., 9 x 6, pap.

s55 **SAN FRANCISCO, CAL.**

2.1 Board of Supervisors. Municipal reports; June, 1875–98. San Fran., 1876–98. 23 v., pl., por., phot., maps, 9 x 6, mor.

s58 **SARATOGA SPRINGS, N. Y.**

1.1 Charter and by-laws of the village; together with the Water Law and By-laws. Saratoga Springs, 1872. 74 pp., 9 x 6, pap.

s60 **SAUGUS, MASS.**

2.1 Auditors. Annual report of the receipts and expenditures of the Town of Saugus; 1878. Lynn, 1879. 1 v., 9 x 6, pap.

s65 **SEATTLE, WASH.**

2.1 City Council. Municipal reports; 1891. Seattle, 1892. 1 v., maps, tab., 9 x 6, sh.

3.1 City Engineer. Report; 1892. Seattle, 1893. 1 v., pl., tab., 8 x 6, pap.

s70 **SHANGHAI, CHINA.**

2.1 Municipal Council. Report; 1895–97, '99 and budget; 1896–98, 1900. Shanghai, 1896–1900. 4 v., 9 x 5, pap.

O—(*Continued*).

s75 SOMERVILLE, MASS.

2.1 City Council. Annual reports; 1857–89. Note: Reports, 1861, '63, '66–70, '72–73 wanting. Bost., 1858–90. 24 v., maps, tab., 9 x 6, pap.

3.1 City Engineer. Annual report; 17th–18th; 1890–91. Somerville, 1891–92. 2 v., 9 x 6, pap.

s80 SPRINGFIELD, MASS.

2.1 City Engineer. Annual report; 1891. Springfield, 1892. 1 v., 9 x 6, pap.

s85 SUPERIOR, WIS.

2.1 Board of Public Works. Annual report; 1892. Superior, 1893. 1 v., tab., 9 x 6, pap.

s88 SURBITON, ENG.

2.1 Surveyor. Annual report, accounts and balance sheet; 1898–99. Surbiton, 1899. 1 v., 8 x 5, pap.

s90 SYDNEY, N. S. W.

2.1 City Surveyor. Yearly report; 1887–88. Sydney, 1888–89. 2 v., pl., 13 x 8, pap.

s95 SYRACUSE, N. Y.

2.1 Board of City Auditors. Proceedings; 1883–84. Syracuse, 1884–85. 2 v., 9 x 6, pap.

3.1 Common Council. Proceedings and reports of the City Officers; 1889. Syracuse, 1890. 1 v., 9 x 6, cl.

4.1 Mayor. Inaugural addresses and reports of Departments; 1877–78. Syracuse, 1878. 1 v., 9 x 5, pap.

t5 TACOMA, WASH.

2.1 Board of Public Works. Annual report; 1st; 1891. Tacoma, 1891. 1 v., pl., 9 x 6, pap.

t20 TOLEDO, OHIO.

2.1 City Civil Engineer. Annual report; 1886, '88. Toledo, 1887–89. 2 v., 9 x 6, pap.

t25 TOPEKA, KAN.

2.1 City Engineer. Statement of work done; 1889–91. no place, 1892. 1 p., 11 x 8, pap.

t30 TORONTO, ONT.

2.1 City Engineer. Annual report; 1882–98. Toronto, 1882–99. 15 v., pl., maps, tab., 9 x 6, pap.

t35 TROY, N. Y.

2.1 City Engineer. Report; Feb., 1893–94. Troy. 1895. 1 v., pl., maps, tab., 9 x 6, ro.

3.1 Public Improvement Commission. Annual report; 2d; 1891. Troy, 1892. 1 v., maps, tab., 9 x 6, pap.

t40 TRURO, N. S.

2.1 Laws and ordinances relating to the Town of Truro, Nova Scotia. ed. 2. Truro, 1879. 83 pp., 8 x 6, pap.

u8 UTICA, N. Y.

2.1 City Surveyor. Annual report; Feb., 1887. Utica, 1888. 1 v., pl., 9 x 6, cl.

v8 VERGENNES, VT.

2.1 Annual report of the Auditors, Common Council and other officers of the city; Mar., 1878. Vergennes, 1879. 1 v., 9 x 6, pap.

w5 WALTHAM, MASS.

2.1 Annual reports of the several Boards of Town Officers; 1875. Waltham, 1876. 1 v., 9 x 6, pap.

d40 WASHINGTON, D. C.

2.1 Annual report; Nov., 1876-June, '78, June, '82–83, June, '85–86. District of Columbia-Commissioners. Wash., 1877–86. 4 v., pl., maps, 9 x 6, pap.

3.1 Annual report of the operations of the Department; June, 1878–97. District of Columbia-Engineer Department. Note: Reports, June, 1882–83, June, '85–86 wanting. Wash., 1880–97. 17 v., pl., maps, tab., 9 x 6, pap.

4.1 Report; June, 1871-Nov., '72. District of Columbia-Board of Public Works. no place, 1872 (?) 1 v., pl., tab., 9 x 5, cl.

w10 WATERBURY, CONN.

2.1 City Engineer. Annual report; 1890–92. Waterbury, 1891–93. 3 v., il., pl., tab., 9 x 6, pap.

w20 WESTFIELD, MASS.

2.1 Annual reports of the Treasurer, Selectmen, Overseers of Poor, Water Commissioners and Assessors of the Town of Westfield; Feb., 1877. Westfield, 1878. 1 v., 9 x 6, pap.

w25 WICHITA, KAN.

2.1 Municipal reports; Mar., 1889. Wichita, 1890. 1 v., 9 x 6, pap.

O—(*Continued*).

w30 WILLIAMSPORT, PA.

2.1 Mayor. Message, City Controller's report, and reports of Departments; 1889, '94-96. Williamsport, 1890-97. 4 v., tab., 9 x 6, pap.

w35 WILMINGTON, DEL.

2.1 Department of Engineering and Surveying. Annual report of the Chief Engineer; 1st, 3d-16th, 21st-22d: 1871, '73-86, '91-92. Wilmington, 1872-98. 16 v., 9 x 6, pap.

3.1 Street and Sewer Department. Annual Statement of the Board of Directors; 1st-5th, 7th-9th, 11th; 1887-91, '93-95, '97. Wilmington, 1889-98. 9 v., pl., tab., 9 x 6, pap.

w40 WORCESTER, MASS.

Annual report; 1867-68. Worcester, 1868-69. 2 v., 9 x 6, b. p. Dc-431, p. 257.

2.1 Mayor. Inaugural address of the Mayor; with the annual reports of the several departments; 1848-84. Worcester, 1849-85. 37 v., tab., 9 x 6, pap.

y9 YOUNGSTOWN, OHIO.

2.1 Board of City Commissioners. Report: Apr., 1893. Youngstown, 1893. 1 v., 9 x 6, pap.

LANDSCAPE ARCHITECTURE.

P

ADIRONDACK PARK, N. Y. Map of the Adirondack Forest and adjoining territory; compiled from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. 1898. (See Qf-301.)

34 **ALLEGHENY, PA.** Annual report of the Park Commission; 2d; 1869. Pittsburg, 1870. 1 v., 9 x 6, cl.

——Annual reports of the Councils. (See Oa20-2.1.)

19 **BOSTON, MASS.** Annual report of the Board of Commissioners of Parks; 2d-25th; 1876-99. Bost., 1876-1900. 24 v., 9 x 6, pap.

42 ——Annual report of the Board of Survey; 1893. Bost., 1894. 1 v., pl., maps, 9 x 6, cl.

——Annual reports of the Engineering Department. (See Ob35-3.1.)

49 ——Back-Bay Fens, The: Contract and specifications for building a retaining wall and culvert at the Longwood Entrance. Department of Parks. Bost., 1891. 23 pp., pl., 10 x 8, pap.

5 ——Boston in the future; its park grounds, and a grand avenue through the city; with a map showing outlines of proposed annexations, including Charlestown, Somerville and Cambridge. Bost., 1871. 12 pp., maps, 9 x 6, pap.

47 ——Contract and specifications for building an iron pier at Marine Park. Department of Parks. Bost., 1887. 28 pp., 9 x 6, pap.

48 ——Contract and specifications for building a pier head at Marine Park. Department of Parks. Bost., 1889. 25 pp., pl., 10 x 8, pap.

51 ——Contract and specifications for excavating ponds and grading at Franklin Park. Department of Parks. Bost., 1892. 20 pp., 10 x 8, pap.

52 ——Contract and specifications for filling at Marine Park; 1889-90, '94. Department of Parks. Bost., 1889-94. 3 v., 10 x 8, pap.

81 ——Contract and specifications for grading at Arnold Arboretum. Department of Parks. Bost., 1890. 19 pp., pl., 10 x 8, pap.

80 ——Contract and specifications for grading at Charlestown Heights. Department of Parks. Bost., 1892. 20 pp., 10 x 8, pap.

53 ——Contract and specifications for grading at Wood Island Park; 1891, '93. Department of Parks. Bost., 1891-93. 2 v., 10 x 8, pap.

82 ——Contract and specifications for grading on Dorchester Parkway between Boston St. and the Old Colony R. R. Department of Parks. Bost., 1893. 20 pp., 10 x 8, pap.

83 ——Contract and specifications for grading on Seaver St., between Maple St. and Walnut Ave. Department of Parks. Bost., 1893. 20 pp., 10 x 8, pap.

84 ——Contract and specifications for grading on the Parkway. Department of Parks. Bost., 1890-91. 2 v., pl., 10 x 8, pap.

85 ——Contract and specifications for grading on the Parkway, between Perkins St. and Centre St. Department of Parks. Bost., 1893. 21 pp., 10 x 8, pap.

86 ——Contract and specifications for grading on the Parkway, between Washington St. and Forest Hills St. Department of Parks. Bost., 1892. 21 pp., 10 x 8, pap.

88 ——Contract and specifications for retaining walls at Charlestown Heights. Department of Parks. Bost., 1892. 20 pp., 10 x 8, pap.

87 ——Contract and specifications for retaining walls on the Parkway. Department of Parks. Bost., 1893. 19 pp., 10 x 8, pap.

45 ——Essay and plan for the improvement of the City of Boston. R. M. Copeland. Bost., 1872. 46 pp., map, 9 x 6, pap.

2 ——Map and description of proposed Metropolitan Park for Boston. Bost., 1870. 12 pp., map, 9 x 6, pap.

4 ——Notes on the plan of Franklin Park, and related matters. Department of Parks. Bost., 1886. 115 pp., maps, 9 x 6, pap.

6 ——Parks for the people: Proceedings of a public meeting held at Faneuil Hall, June 7th, 1876. Bost., 1876. 46 pp., 9 x 6, pap.

P—(*Continued.*)

50 ——Parkway, The: Contract and specifications for retaining walls on Leverett Park. Department of Parks. Bost., 1894. 20 pp., 10 x 8, pap.

8 ——Plan for a public park for Boston. U. H. Crocker. Bost., 1869. 8 pp., map, 9 x 6, pap. no title-page.

17 ——Report, Jan., 1893. Mass.-Board of Metropolitan Park Commissioners. Note: Preliminary report of the Board. no place, 1893. 16 + 147 pp., pl., maps, 9 x 6, cl.

18 ——Report; 1st-7th; 1893-99. Mass.-Board of Metropolitan Park Commissioners. Bost., 1894-1900. 7 v., 9 x 6, cl.

16 **BROOKLYN, N. Y.** Annual report of the Park Commissioners; 1st, 6th, 8th-14th, 23d; 1860, '65, '67-73, '82. Brooklyn, 1861-83. 10 v., 9 x 6, pap.

23 **BUFFALO, N. Y.** Annual report of the Park Commissioners; 5th-6th, 8th-17th; 1875-76, '78-87. Buffalo, 1875-88. 12 v. in 9, 9 x 6, pap.

15 **CHICAGO, ILL.** Report to the Board of County Commissioners of Cook County; 1873. South Park Commissioners. Chic., 1873. 1 v., 9 x 6, pap.

32 **DISTRICT OF COLUMBIA.** Letter from the Acting Chief of Engineers, with a draft of a bill to regulate the use of public parks in the District of Columbia, and recommending its passage. U. S.-Corps of Engineers. (49th Cong., 1st Sess. House ex. doc. No. 144.) Wash., 1886. 3 pp., 9 x 6, pap.

91 **ESSEX COUNTY, N. J.** Annual report of the Board of Commissioners of the Department of Parks; 4th; 1898-99. Newark, 1900. 1 v., pl., 9 x 6, cl.

GENERAL.

14 **BALDWIN, S. E.** Public parks: A lecture delivered in the Mechanics Course, at the Sheffield Scientific School, March 17th, 1881. New Haven, 1881. 27 pp., 9 x 6, pap.

BYRNE, A. T. The laying out of city streets. 1892. (See Na-22, p. 414.)

30 **FOLLEN, CHARLES.** Suggestions on landscape gardening; and thorough drainage, by J. Herbert Shedd. Bost., 1859. 20 pp., 9 x 6, pap.

76 **MAYNARD, S. T.** Landscape gardening as applied to home decoration. N. Y., 1890. 16 + 338 pp., il., pl., 8 x 5, cl.

41 **NORTH, E. P.** Planning of cities. N. Y., 1899. unpaged, 12 x 9, pap. newspaper slips.

78 **HOBOKEN, N. J.** Specifications, etc., for Hudson Square Park Improvement. Spielmann & Brush. no place, 1875. 10 pp., 14 x 8, pap. no title-page.

40 **LONDON, ENG.** Contract No. 1: Works between Westminster and Waterloo Bridges. Board of Metropolitan Works. Contents: v. 1, Specifications wanting. v. 2, Contract drawings for the Thames Embankment, to accompany specifications. Lond., 1863. 1 v., pl., 25 x 20, skiv.

36 ——Report of the Commissioners appointed by Her Majesty to inquire into, and consider, the most effectual means of improving the Metropolis; 1st; 1844. Great Britain-Metropolis Improvement Commission. Note: Relates to the Thames Embankment. no place, 1844. 1 v., pl., 13 x 9, pap.

——Same; 3d; 1845. Note: Relates to the laying out of new streets in London. Lond., 1845. 1 v., pl., 13 x 9, b. p. O140-1.1, p. 241.

——Thames Embankment. William Humber. 1866. (See Cc-233, p. 51.)

39 ——Thames Embankment, Middlesex Side, Contract No. 2: Specification of works between Waterloo Bridge and eastern end of James Temple, Oct., 1863. Metropolitan Board of Works. Contents: v. 1, Specifications. v. 2, Contract drawings. Lond., 1863. 2 v., 12 x 8 (pl. 25 x 19), skiv.

35 ——Thames Embankment, Middlesex Side: Specification of works between Westminster and Waterloo Bridges, July, 1863. Metropolitan Board of Works. Lond., 1863. 6 + 65 pp., 13 x 8, bds.

——Thames Embankment, Surrey Side, Contract No. 1: Specification of works between Westminster Bridge and Gunhouse Alley, 1865. Metropolitan Board of Works. 1865. (See P-39, v. 1, p. 54.)

MASSACHUSETTS. Report of the Joint Board consisting of the Metropolitan Park Commission and the State Board of Health upon the improvement of Charles River from the Waltham Line to the Charles River Bridge. 1894. (See Ec-16.)

14 **NEW HAVEN, CONN.** Public parks: A lecture delivered in the Mechanics Course, at the Sheffield Scientific School, Mar. 17th, 1881. S. E. Baldwin. New Haven, 1881. 27 pp., 9 x 6, pap.

54 **NEW YORK CITY.** Annual report of the Board of Commissioners of the Department of Public Parks; 1st-3d; May, 1870-Dec., '73. N. Y., 1871-75. 3 v., pl., phot., maps, 10 x 6, cl.

20 ——Annual report of the Commissioners of the Central Park; 2d-3d, 5th, 7th, 9th-11th, 13th-14th; 1858-59, '61, '63, '65-67, '69-70. N. Y., 1859-71. 9 v., 9 x 6, pap.

37 ——Annual report of the Department of Public Parks; 1870-72. Note: Report to the Legislature upon improvement of portions of the Counties of Westchester and New York. Albany, 1871-73. 2 v., maps, 9 x 6, pap.

P—(*Continued*).

7 ——Annual report of the Engineer-in-Chief on the improvement of the Central Park, New York; 1st; 1856. Commissioners of the Central Park. N. Y., 1857. 1 v., 9 x 6, pap.

28 ——Answer to the charges made against E. J. Lewis, Superintendent of the 23d and 24th Wards, by the Department of Public Parks. N. Y., 1879. 11 pp., 11 x 7, b. p. no title-page.

77 ——Collection of miscellaneous notices, ordinances and letters relating to Central Park, New York City, 1858-1870. no place, no date. unpaged, 17 x 12, ¾ sh.

66 ——Communication from Commissioner William R. Martin, relative to the plans and improvement of the Fort Washington District, and the 23d and 24th Wards. Department of Public Parks. (Doc. No. 65.) N. Y., 1875. 26 pp., 9 x 6, pap.

65 ——Communication from Commissioner William R. Martin, relative to the prosecution of public improvements in this city. Department of Public Parks. (Doc. No. 64.) N. Y., 1875. 61 pp., 9 x 6, pap.

74 ——Communication from the Landscape Architect and the Civil and Topographical Engineer, in relation to the proposed plan for laying out the Central District of the 23d and 24th Wards, lying east of Jerome Ave. and west of Third Ave. and the Harlem R. R. Department of Public Parks. (Doc. No. 76.) N. Y., 1877. 12 pp., 9 x 6, pap.

56 ——Communication of the Comptroller of the Park on the subject of improvements in Westchester County and its connection with the City of New York by bridges or tunnels. Commissioners of Central Park. no place, 1869 (?) 33 pp., 8 x 5, pap.

31 ——Communication to the Commissioners of the Central Park relative to the improvement of the Sixth and Seventh Avenues, from the Central Park to the Harlem River; the laying out of the Island above 155th St.; the Drive from 59th St. to 155th St.; and other subjects; by Andrew H. Green, Comptroller of the Park. N. Y., 1866. 75 pp., 9 x 6, pap.

68 ——Department of Public Parks: Statement in reference to the operations of the Department during the year 1875. W. R. Martin and J. J. O'Donohue. N. Y., 1876. 18 pp., 9 x 6, pap.

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12 ——Reports of inspection made in the summer of 1877 by P. H. Sheridan and W. T. Sherman, of country north of the Union Pacific R. R. War Department. Wash., 1878. 110 pp., pl., maps, 9 x 6, ½ mor.

——Reports on triangulation and spirit leveling in the United States since 1896. Geological Survey. 1897-99. (See Yh-40.)

52 ——Reports upon the survey of the boundary between the territory of the United States and the possessions of Great Britain, from the Lake of the Woods to the summit of the Rocky Mountains, authorized by an act of Congress approved Mar. 19th, 1872; Archibald Campbell, Commissioner. W. J. Twining, Chief Astronomer. Northern Boundary Commission. (Department of State.) Wash., 1878. 2 v., pl., maps, 12 x 9 (atlas 16 x 23), cl., pap.

54 ——Seat of empire. C. C. Coffin. Bost., 1871. 8 + 232 pp., pl., 7 x 5, cl.

Qe—(*Continued*).

——Summary of the primary triangulation executed by the United States Geological Survey between the years 1882 and 1894; by Henry Gannett. 1896. (See R-8.)

49 ——Tables of geographic positions, azimuths, and distances, together with lists of barometric altitudes, magnetic declinations, and itineraries of important routes; prepared principally by M. M. Macomb, from data gathered by parties of the surveys, operating in the states and territories of California, Colorado, Nebraska, Nevada, Oregon, Arizona, Idaho, New Mexico and Wyoming, 1883. Geographical Surveys West of the One Hundredth Meridian. Wash., 1885. 261 pp., 12 x 8, cl.

60 ——Testimony before the Committee on Public Lands, on the surveys of the public lands in the West. Wash., 1878. 46 pp., 9 x 6, pap. no title-page.

——Topographical and hydrographical surveys of the United States. War Department. 1886. (See Qe-16, pp. 464, 524.)

46 **UTAH.** Exploration and survey of the Valley of the Great Salt Lake of Utah, including a reconnaissance of a new route through the Rocky Mountains; by Howard Stansbury. U. S.-Bureau of Topographical Engineers. (Special Sess., Mar., 1851. Senate ex. doc. No. 3.) Phil., 1852. 2 v., pl., maps, 9 x 6, cl.

——Exploration of the Colorado River of the West and its tributaries; explored in 1869, 1870, 1871, and 1872, under the direction of the Secretary of the Smithsonian Institution. 1875. (See Sa3-19.8.)

75 ——Geographical memoir upon Upper California, in illustration of his map of Oregon and California. J. C. Frémont. (30th Cong., 2d Sess. House misc. doc. No. 5.) Wash., 1849. 34 pp., 9 x 6, b. p.

——Geographical report. U. S.-Geographical Surveys West of the One Hundredth Meridian. 1889. (See Qe-44, v. 1.)

45 ——Progress report in 1872; by George M. Wheeler. U. S.-Geographical Surveys West of the One Hundredth Meridian. Wash., 1874. 56 pp., il., 5 pl., map, 12 x 9, cl.

29 ——Report of explorations across the Great Basin of the Territory of Utah for a direct wagon route from Camp Floyd to Genoa, in Carson Valley, in 1859; by Capt. J. H. Simpson. U. S.-Bureau of Topographical Engineers. Wash., 1876. 518 pp., pl., maps, 12 x 9, cl.

31 ——Report of the exploring expedition from Santa Fé, New Mexico, to the junction of the Grand and Green Rivers of the Great Colorado of the West, in 1859, under the command of Capt. J. N. Macomb; with geological report, by J. S. Newberry. U. S.-Bureau of Topographical Engineers. Wash., 1876. 7 + 152 pp., pl., map, 12 x 9, cl.

114 ——Report upon the Colorado River of the West, explored in 1857 and 1858 by Lieutenant Joseph C. Ives, A. A. Humphreys in charge. U. S.-Exploration and Surveys. (36th Cong., 1st Sess. Senate ex. doc.) Wash., 1861. 5 pts. in 1 v., il., pl., maps, 12 x 9, cl.

95 **VERMONT.** Report of the Commissioners on Massachusetts and Vermont Boundaries. no place, 1899. 19 pp., maps, 9 x 6, cl. no title-page.

75 **WASHINGTON.** Geographical memoir upon Upper California, in illustration of his map of Oregon and California. J. C. Frémont. (30th Cong., 2d Sess. House misc. doc. No. 5.) Wash., 1849. 34 pp., 9 x 6, b. p.

35 **WYOMING.** Report of a reconnaissance from Carroll, Montana Territory, on the Upper Missouri, to the Yellowstone National Park, and return, made in the summer of 1875; by William Ludlow. U. S.-Corps of Engineers. Wash., 1876. 155 pp., il., 2 pl., maps, 12 x 9, cl.

8 ——Report of an exploration of parts of Wyoming, Idaho, and Montana, in Aug. and Sept., 1882; made by Lieut.-Gen. P. H. Sheridan; with the itinerary of Col. Jas. F. Gregory; and a geological and botanical report by Surgeon W. H. Forwood. U. S.-War Department. Wash., 1882. 69 pp., map, 9 x 6, pap.

5 ——Report of Gustavus C. Doane, upon the so-called Yellowstone Expedition of 1870. U. S.-Corps of Engineers. (41st Cong., 3d Sess. Senate ex. doc. No. 51.) Wash., 1873. 40 pp., 9 x 6, pap.

9 ——Report of the Surveyor General; 1879. Wash., 1879. 8 pp., 9 x 6, pap.

48 ——Report upon the reconnaissance of Northwestern Wyoming, including Yellowstone National Park, made in the summer of 1873; by William A. Jones; with appendix. U. S.-Corps of Engineers. Wash., 1875. 6 + 331 pp., il., pl., maps, 9 x 6, cl.

108 **YELLOWSTONE RIVER.** Report of an expedition up the Yellowstone River, made in 1875, by James W. Forsyth and F. D. Grant, under the orders of Lieut.-Gen. P. H. Sheridan. U. S.-War Department. Wash., 1875. 17 pp., pl., map, 9 x 6, pap.

100 ——Report of a reconnaissance of the Basin of the Upper Yellowstone in 1871; by J. W. Barlow, assisted by D. P. Heap. U. S.-Corps of Engineers. (42d Cong., 2d Sess. Senate ex. doc. No. 66.) Wash., 1872. 43 pp., map, 10 x 6, pap.

101 ——Report on the exploration of the Yellowstone River, by W. F. Raynolds; communicated by the Secretary of War, in compliance with a resolution of the Senate, Feb. 13th, 1866. U.S.-Corps of Engineers. (40th Cong., 1st Sess. Senate ex. doc. No. 77.) Wash., 1868. 174 pp., map, 9 x 6, pap.

Qf

807 **ADDISON COUNTY, VT.** Map. H. F. Walling. Bost., 1857. sheet, 15 x 10, cl. scale, 1: 50 000.

301 **ADIRONDACK WILDERNESS.** Map of the Adirondack Forest and adjoining territory; compiled from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. N. Y., 1898. 2 sheets, 58 x 36, cl. scale about 9 000 ft. to 1 in.

259 ——Map of the Adirondack Wilderness and adjoining territory. New York State-Forest Commissioners. no place, 1884. 6 sheets. scale about 1 mile to 1 in.

255 **AFRICA.** Africa, oriental; reconhecimento para os estudos do Caminho de Ferro da Beira a Manica effectuado em 1891 pelos officaes da companhia mixta de engenheria expedicionaria a Moçambique. J. R. Baptista. no place, no date. scale, 1: 500 000.

376 ——Carta da Provincia de Moçambique. Portugal-Ministerio da Marinha e Ultramar. Lisboa, 1890. sheet, 30 x 24, bds. scale, 1: 3 000 000.

156 ——Carta das possessões Portuguezas da Africa meridional. Portugal-Commissaõ de Cartographia. no place, 1891. 7 sheets. various scales.

188 **AGATE HARBOR, MICH.** Preliminary chart of Agate Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. no place, 1858. scale, 1: 10 000.

389.1 **ALABAMA.** Geologic atlas of the United States: Alabama folios. U. S.-Geological Survey. Wash., 1894–98. 2 v., 22 x 18, pap. scale, 1: 125 000.

390.1 ——Topographic atlas sheets of Alabama. U. S.-Geological Survey. Wash., 1889–99. 18 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 50 and 100 ft.

398 **ALBANY, N. Y.** Albany and vicinity; surveyed in 1891. U. S.-Geological Survey. no place, 1894. sheet, 36 x 26, pap. scale, 1: 62 500.

269 ——Isometrical projection of territory adjacent to the City of Albany, showing the plans proposed for the extension of the Albany City Water-works. Albany-Water Commissioners. Albany, 1868 (?) sheet, 29 x 42, pap. no scale given.

22 ——Map of the City of Albany, with villages of Greenbush, East Albany and Bath, N. Y. E. Jacob. Albany, 1857. scale, 800 ft. to 1 in.

——Map of the neighborhood of the City of Albany, showing the routes of the proposed plans for furnishing a supply of water. F. W. Birmingham. 1850. (See Dc-325.)

382 **ALBANY & SUSQUEHANNA R. R.** A. Fischer. N. Y., 1854. sheet, 42 x 16, pap. scale, 1: 230 400.

383 ——Map showing the position of the A. & S. R. R. in relation to the other railroads of the States of New York, Pennsylvania and Massachusetts, etc. N. Y., 1854. sheet, 28 x 35, pap. no scale given.

219 **ALBEMARLE SOUND, N. C.** U. S.-Coast and Geodetic Survey. no place, 1877–80. 2 sheets. scale, 1: 80 000.

308 **ANDOVER, MASS.** Map of the Town of Andover, Essex Co., Mass. H. F. Walling. Bost., 1852. sheet, 12 x 10, cl. scale, 1: 18 000.

476 **ANDROSCOGGIN RIVER.** Maps of the Androscoggin and Cobbisseconte Rivers. no place, no date. 6 sheets, various sizes, pap. scale about ¼ mile to 1 in. no title-page.

233 **ANGERS, FRANCE.** Plan géometrique de la Ville d'Angers d'après le plan du Cadastre; modifié conformément à l'état actuel de la ville. Abel Duveau. Angers, 1863 (?) scale, 1: 5 000.

197 **ANNAPOLIS HARBOR, MD.** U. S.-Coast Survey. no place, 1846. scale, 1: 60 000.

466 **ARGENTINE REPUBLIC.** Mapa de la Provincia de Catamarca, construido segun datos recogidos y observaciones personales hechas en los anos 1887–93. Gunardo Lange. La Plata, 1893. 2 v., 10 x 7 (maps 36 x 40), pap. scale, 1: 500 000.

390.2 **ARIZONA.** Topographic atlas sheets of Arizona. U. S.-Geological Survey. Wash., 1887–93. 15 sheets, 17 x 15, pap. scale, 1: 250 000. contour intervals, 200 and 250 ft.

390.3 **ARKANSAS.** Topographic atlas sheets of Arkansas. U. S.-Geological Survey. Wash., 1890–99. 15 sheets, 17 x 15, pap. scales: 1: 62 500; 1: 125 000. contour intervals, 20 and 50 ft.

475 **ARKANSAS RIVER.** Maps of the survey of the Arkansas River, by S. T. Abert, Feb., 1868, to July, 1869. U. S.-Corps of Engineers. no place, no date. 5 phot., 6 x 15, pap. no title-page. no scale given.

477 ——Military reconnaissance of the Arkansas, Rio del Norte, and Rio Gila, by W. H. Emory, under command of Stephen W. Kearny; constructed under the orders of J. J. Abert. U. S.-Bureau of Topographical Engineers. Wash., 1847. sheet. 32 x 70, pap. scale drawn: about 24 miles to 1 in.

230 **ATLANTIC OCEAN.** Chart of the North Atlantic Ocean; from the most recent British, French and United States Surveys. U. S.-Hydrographic Office. Wash., 1872. 2 sheets. no scale given.

257 ——Chart of the South Atlantic Ocean, from the Equator to 65° south latitude; from the most recent British, French and Brazilian authorities. U. S.-Hydrographic Office. Wash., 1869. 2 sheets. no scale given.

Qf—(*Continued*).

4 ——Pilot chart of the North Atlantic Ocean (monthly); 1886-97. U. S.-Hydrographic Office. Note: Jan., Feb., 1886, Oct.-Dec., 1897 wanting. Wash., 1886-97. sheets, 24 x 34, pap. no scale given.

148 **AUGUSTA COUNTY, VA.** Map; prepared by Jed Hotchkiss, Dec., 1865. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1⅛ miles to 1 in.

424 **AUSTRIA-HUNGARY.** Post- und Eisenbahn-Karte der österreichisch-ungarischen Monarchie; herausgegeben vom Post-Cours-Bureau des k. k. Handelsministeriums, gezeichnet von Joh. Gottwald u. Jos. Broditzky. Alexander Mayer. Wien, no date. sheets, 27 x 21, bds. scale, 1: 576 000.

511 **BADEN.** Karten über die Binnenflüsse im Grosherzogthum Baden nach dem Stande vom Jahre 1863. Oberdirektion des Wasser- und Strassen- baues. no place, 1863. sheets, 11 x 9, bds. scale, 1: 25 000.

423 **BAHIA, BRAZIL.** Mapa do Estado da Bahia, 1892. Miguel de Teive e Argollo. no place, no date. sheet, 24 x 25, cl. scale, 1: 10 000.

252 **BALTIMORE & OHIO R. R.** Map and profile of the location of the B. & O. R. R.; from Cumberland to Wheeling, showing also the various routes surveyed from the year 1836 to the final establishment in 1850 of the line upon which the road is being constructed. B. H. Latrobe. Balt., 1850. scales: horizontal, 2 miles to 1 in.; vertical, 500 ft. to 1 in.

75 **BARNSTABLE COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1: 63 360.

23 **BATH, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany and Bath, N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.

186 **BEAUFORT HARBOR, N. C.** Preliminary sketch of Beaufort Harbor. U. S.-Coast Survey. no place, 1851. scale. 1: 20 000.

306 **BENNINGTON COUNTY, VT.** Map. E. Rice and C. E. Harwood. N. Y., 1856. sheet, 15 x 11, cl. scale, 1 mile to 1 in.

346 **BERLIN, GERMANY.** Topographische Karte der Umgegend von Berlin. Ber., no date. sheet, 26 x 19, pap. no scale given.

123 **BLACK ROCK HARBOR, CONN.** Harbors of Black Rock and Bridgeport. U. S.-Coast Survey. no place, 1848. scale, 1: 20 000.

487 **BLACK SEA.** New map of the Black Sea, Caucasus, Crimea, etc., with enlarged plans of Sevastopol as seen by the officers of H. M. S. F. *Retribution* 6th Jan., 1854, and the Bosporus. W. and A. K. Johnston, pub. Edin., 1854. sheet, 21 x 27, pap. scale about 4 miles to 1 in.

89 **BLACKSTONE, MASS.** Map of the Town of Blackstone, Worcester Co., Mass. H. F. Walling. no place, 1854. scale, 1 000 ft. to 1 in.

88 **BOSTON, MASS.** Map of Boston and vicinity. H. F. Walling. Bost., 1859. scale, ½ mile to 1 in.

362 ——Map of Boston and vicinity, showing metropolitan park system; prepared for 27th annual convention of the American Society of Civil Engineers, June 18th to 22d, 1895. Bost., 1895. sheet, 23 x 33, pap. no scale given.

5 ——Map of the City of Boston and its environs, from actual surveys. D. J. Lake. Bost., 1867. scale about 1 mile to 1 in.

BOSTON WATER-WORKS. Map showing the several systems of supply already constructed; also drainage areas. Boston-City Engineer. 1878. (See Dc-834.)

59 **BOYLSTON, MASS.** Map of the Town of Boylston, Worcester Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1856. scale, ½ mile to 1 in.

247 **BRAZIL.** Maps of Brazil. no place, 1875. 8 sheets. scale, 1 : 3 710 220.

57 **BREVARD COUNTY, FLA.** Map. J. F. LeBaron. Jacksonville, 1885. scale, 1 : 190 080.

123 **BRIDGEPORT HARBOR, CONN.** Harbors of Black Rock and Bridgeport. U. S.-Coast Survey. no place, 1848. scale, 1 : 20 000.

77 **BRISTOL COUNTY, MASS.** Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. N. Y., 1858. scale, 240 rods to 1 in.

68 **BRISTOL COUNTY, R. I.** Map. H. F. Walling. Providence, 1851. scale, 1 : 25 000.

366 **BRITISH COLUMBIA.** Map of the country adjacent to Puget Sound, embracing British Columbia and the counties of Western Washington. Baker, Balch & Co. Seattle, no date. sheet, 28 x 16, pap. no scale given.

43 **BROME COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1⅛ miles to 1 in.

34 **BROOKLYN, N. Y.** City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about ⅛ mile to 1 in.

132 ——Map. Brooklyn & Union Elevated R. R. Co. N. Y., 1889. scale about 1 540 ft. to 1 in.

Qf—(*Continued*).

21 ——New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.

100 **BUFFALO HARBOR, N. Y.** Chart of Buffalo Harbor and head of Niagara River with the outlet of Lake Erie. U. S.-Bureau of Topographical Engineers. no place, 1856 (?) scale, 1 : 30 000.

399 **BUTTE, MONT.** Montana (Silver Bow Co.): Butte special map. U. S.-Geological Survey. no place, 1897. sheet, 17 x 24, pap. scale, 1 : 150 000. contour intervals, 20 ft.

384 **CAIRO & FULTON R. R.** Map showing the line of the C. & F. R. R. and its connections. G. W. and C. B. Colton & Co., pub. N. Y., 1872. sheet, 25 x 24, pap. scale about 38 miles to 1 in.

310 **CALEDONIA COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. sheet, 15 x 10, cl. scale, 1 : 50 000.

389.4 **CALIFORNIA.** Geologic atlas of the United States: California folios. U. S.-Geological Survey. Wash., 1894–98. 12 v., 12 x 18, pap. scales: 1 : 14 400; 1 : 125 000; 1 : 250 000.

342 ——Map of Oregon and Upper California, from the surveys of John Charles Frémont and other authorities; drawn by Charles Preuss. Balt., 1848. sheet, 26 x 30, pap. no scale given.

409 ——Preliminary mineralogical and geological map of the State of California. California-State Mining Bureau. no place, 1891. sheet, 54 x 29, pap. scale, 12 miles to 1 in.

411 ——Sacramento Valley from Iron Cañon to Suisun Bay. California-Commissioner of Public Works. San Fran., 1895. sheet, 85 x 39, pap. scale, 2 miles to 1 in.

390.4 ——Topographic atlas sheets of California. U. S.-Geological Survey. Wash., 1891–99. 78 sheets, 17 x 15, pap. scales: 1 : 62 500; 1 : 125 000; 1 : 250 000. contour intervals, 25, 50 and 100 ft.

414 ——Topographical maps of California: American Basin, Sutter Basin, Yolo Basin, Colusa Basin, and Sacramento and Lower San Joaquin Valleys. California-Commissioner of Public Works. San Fran., 1895. 6 sheets, various sizes, pap. various scales.

50 **CAMBRIDGE, MASS.** Map. H. F. Walling. Bost., 1854. scale, 1 : 6 000.

297 **CANADA.** Appendix to report of the Commissioner. Department of Crown Lands. Contents: Pt. 1, wanting. Pt. 2, Maps of Canada. Toronto, 1857. sheets, various sizes, bds. various scales.

261 ——Atlas of the Dominion of Canada. H. F. Walling. Montreal, 1875. 251 pp., maps. 17 x 14, ¾ mor. various scales.

——Geological map of Canada: Result of surveys from 1842–1882. A. R. C. Selwyn and G. M. Dawson. 1884. (See Yh-88, v. 2.)

272 ——Government map of part of the Dominion of Canada, embracing the Provinces of Ontario, Quebec, Manitoba, New Brunswick, Nova Scotia, Prince Edward Island, etc.; comp. under the direction of Thomas Devine. Department of Crown Lands. no place, 1873. scale about 28½ miles to 1 in.

332 ——Map of part of the North West Territory, including the Province of Manitoba, shewing an approximate classification of the lands. Department of the Interior. Montreal, 1878. sheet, 27 x 20, pap. no scale given.

465 ——New and complete map of all the railroads in the United States and Canada in operation and progress. H. V. Poor. N. Y., 1857. sheet, 35 x 42, cl. scale, 33⅓ miles to 1 in.

13 ——New county and railroad map of the United States and of the Dominion of Canada. Gaylord Watson. N. Y., 1873. scale about 35 miles to 1 in.

20 ——New railroad and distance map of the United States and Canada. Gaylord Watson. N. Y., 1868. scale about 36 miles to 1 inch.

80 ——New topographical map of the whole Dominion of Canada, with a large section of the United States; comp. from the latest and most authentic sources, with additions and corrections to date of publication. John Johnston. Montreal, 1874. scale, 27½ miles to 1 in.

——Plans of various lakes and rivers between Lake Huron and the River Ottawa, to accompany the geological reports for 1853, '54, '55, '56. 1857. no scale given. (See Yh-37.)

226 **CAPE COD HARBOR.** Comparative map of Cape Cod Harbor, showing physical changes between the survey in 1835 and the United States Coast Survey in 1867. Massachusetts-Cape Cod Harbor Commission. no place, no date. scale about ⅛ mile to 1 in.

200 **CAPE FEAR RIVER.** Sketch of Frying-Pan Shoals and Cape Fear River. U. S.-Coast Survey. no place, 1851. scale, 1:120 000.

242 **CAPE FLATTERY, WASH.** Cape Flattery and Neé-ah Harbor, Wash. U. S.-Coast Survey. no place, 1853. scale, 1:40 000.

155 **CAPE VERDE ISLANDS.** Maps. Portugal-Commissaõ de Cartographia. no place, 1888. 7 sheets. scale, 1:100 000.

Qf—(*Continued*).

115 **CAPTAIN'S ISLAND, CONN.** Harbors of Captain's Island East and Captain's Island West. U. S.-Coast Survey. no place, 1849. scale, 1: 20 000.

211 **CARIBBEAN SEA.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.

188 **CAT ISLAND HARBOR.** Cat and Ship Island Harbors. U. S.-Coast Survey. no place, 1850. scale, 1 : 40 000.

167 **CATALINA HARBOR, CAL.** Reconnaissance of Catalina Harbor and the anchorage on the N. E. side of the island. U. S.-Coast Survey. no place, 1852. scale, 1 : 15 000.

370 **CATSKILL MOUNTAINS.** Relief map. N. Y., no date. sheet, 8 x 10, pap. no scale given.

182 **CAWKIN'S ISLAND, CONN.** Harbors of Sheffield Island and Cawkin's Island. U. S.-Coast Survey. no place, 1848. scale, 1 : 20 000.

332 **CAYUGA LAKE, N. Y.** Surveyed by the Senior and Junior classes from 1874-78. Cornell University-Engineer Department. N. Y., 1884. scale, 1 : 60 000.

7 **CENTRAL AMERICA.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.

35 ——Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.

260 **CENTRAL PACIFIC R. R.** Map of C. P. R. R. across summit of Sierra Nevada. no place, no date. scale, 1 600 ft. to 1 in.

501 **CERRO DE PASCO MINING DISTRICT.** Map of the Cerro de Pasco Mining District, Peru, South America; to accompany the reports of the Cerro de Pasco Mining Commission, 1887. no place, 1888. sheet, 40 x 29, pap. scale, 1 : 8 000.

311 **CHARLESTON, S. C.** Historical map of Charleston, 1670-1883; comp. from United States Coast Survey map, harbour charts, railroad and private plats; by Louis J. Barbok. City Civil Engineer. Charleston, 1884. sheet, 14 x 13, cl. scale about 571 ft. to 1 in.

278 **CHATTANOOGA, TENN.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.-Chickamauga and Chattanooga National Park Commission. Wash., 1896-97. 7 pl., 27 x 20, pap. various scales.

348 ——Chattanooga mineral district. no place, no date. sheet, 40 x 28, pap. no scale given.

180 **CHESTER RIVER, MD.** Mouth of Chester River. U. S.-Coast Survey. no place, 1849. scale, 1 : 40 000.

172 **CHICAGO, ILL.** Map. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1872. scale about 1 000 ft. to 1 in.

150 **CHICAGO INTERNATIONAL EXHIBITION, 1893.** Map of the buildings and grounds of the World's Columbian Exposition at Jackson Park and the Midway Plaisance, Chicago, Ill.; issued by the Department of Works. Chic., 1893. scale about 100 ft. to 1 in.

422 **CHICAGO RIVER.** Atlas containing maps of Chicago River, Ill., and its branches; showing result of improvement by the United States Government, under direction of Major W. L. Marshall, Corps of Engineers, U. S. A., in 1896 to 1899. U. S.-Corps of Engineers. Wash., no date. pl., maps, 29 x 23. pap. scale, 100 ft. to 1 in.

278 **CHICKAMAUGA, TENN.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.-Chickamauga and Chattanooga National Park Commission. Wash., 1896-97. 7 pl., 27 x 20, pap. various scales.

39 **CHITTENDEN COUNTY, VT.** Map. H. F. Walling. Bost., 1857. scale about 4 000 ft. to 1 in.

178 **CITY HALL PARK, NEW YORK CITY.** Plan. no place, no date. scale, 30 ft. to 1 in.

422 **CITY OF MEXICO & TUXPAN RY.** Map. no place, no date. sheet, 29 x 20, pap. scale about 25 miles to 1 in.

309 **CLINTON COUNTY, OHIO.** Map. H. F. Walling. N. Y., 1859. sheet, 15 x 10, cl. scale, ½ mile to 1 in.

40 **CLINTON COUNTY, PA.** Map. H. F. Walling. N. Y., 1862. scale, 1 mile to 1 in.

223 **COLOMBIA.** Maps of the United States of Colombia. Bogota, 1864. 10 sheets. scales: 1: 810 000; 1: 1 350 000.

389.5 **COLORADO.** Geologic atlas of the United States: Colorado folios. U. S.-Geological Survey. Wash., 1894-98. 4 v., 22 x 18, pap. scales: 1:25 000; 1:31 680; 1:62 500; 1: 125 000.

390.5 ——Topographic atlas sheets of Colorado. U. S.-Geological Survey. Wash., 1891-99. 52 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 25, 50 and 100 ft.

Qf—(*Continued*).

168 **COLUMBIA RIVER.** Mouth of Columbia River. U. S.-Coast Survey. no place, 1851. scale, 1: 40 000.

CONNECTICUT. Geographic dictionary of Connecticut. Henry Gannett. 1894. (See Yh-87, No. 117.)

390.6 ——Topographic atlas sheets of Connecticut. U. S.-Geological Survey. Wash., 1891-97. 23 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

418 ——Topographical atlas of the State of Connecticut; by the United States Geological Survey in cooperation with the state. U. S.-Geological Survey. Hartford, 1893. sheets, 21 x 17, ¾ mor. scale, 1: 62 500.

246 **CONNECTICUT RIVER.** Mouth of Connecticut River. U. S.-Coast Survey. no place, 1853. scale, 1: 20 000.

434 **CONTINENTAL RY.** Map showing the route of the Continental Ry. and its connecting lines. G. W. and C. B. Colton & Co., pub. N. Y., 1878. sheet, 21 x 40, pap. scale, 35 miles to 1 in.

140 **COPPER HARBOR, MICH.** Preliminary chart of Copper Harbor. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1865. scale, 1: 10 000.

69 **CROTON WATER SHED.** Entire Croton water-shed above Quaker Bridge. no place, no date. scale, 2 000 ft. to 1 in.

127 ——Topographical map of Croton water-shed, W. E. Worthen, C. E. New York City-Aqueduct Commission. N. Y., 1889. scale, ½ mile to 1 in.

144 ——Topographical map showing the entire water-shed of Croton River above the Croton Aqueduct Dam; also the most available sites for storage reservoirs; from minute surveys made during the years 1857 and 1858. New York City-Aqueduct Commission. N. Y., 1858 (?) scale about ¾ mile to 1 in.

122 **CUYLER'S HARBOR, CAL.** Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's Harbor, Island of San Miguel, Cal. U. S.-Coast Survey. no place, 1852. scale, 1: 20 000.

415 **DANUBE RIVER.** Carte du Danube et de ses embranchements entre Braila et la mer, levée en 1870-1871, by Robert Hansford, Arpenteur de la Commission et Charles Kühl, Ingénieur Civil, sous la direction de *Sir* Charles A. Hartley, Ingénieur en Chef. Commission Européene du Danube. Leipzig, 1886. 5 pl., 28 x 20, pap. scale, 1 marine mile to 1 in.

195 **DAVISS SOUTH SHOAL.** Preliminary sketch, showing the positions of Daviss South Shoal and other dangers recently discovered by the Coast Survey, and the soundings on the Old South Shoal, Bass Rip, Old Man, Pochick Rip, etc. U. S.-Coast Survey. no place, 1851 (?) scale, 1: 200 000.

212 **DELAWARE RIVER.** Map of Delaware Bay and River. U. S.-Coast Survey. no place, 1848. scale, 1: 80 000.

435 **DENVER & RIO GRANDE R. R.** Map of the D. & R. G. R. R. system. Rand, McNally & Co., pub. Chic., no date. sheet, 15 x 18, pap. no scale given.

106 **DETROIT RIVER.** Preliminary chart of mouth of Detroit River. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1874 (?) scale, 1: 20 000.

355 **DISTRICT OF COLUMBIA.** New topographical atlas of the State of Maryland and the District of Columbia, with descriptions, historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet, H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13, ½ mor. various scales.

401 ——Washington and vicinity. U. S.-Geological Survey. no place, 1895. sheet, 18 x 27, pap. scale, 1: 62 500. contour intervals, 20 ft.

75 **DUKES COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.: based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1: 63 360.

341 **DUNKIRK, N. Y.** Map of Webster's addition to the City of Dunkirk, N. Y. C. L. Webster. N. Y., 1880. sheet, 22 x 17, pap. no scale given.

319 **DUVAL COUNTY, FLA.** J. F. Le Baron. Jacksonville, 1884. sheet, 24 x 20, pap. scale about 2 miles to 1 in.

363 ——Map; made by order of the County Commissioners. ed. 2. J. F. Le Baron. Bost., 1898. sheet, 44 x 53, pap. scale, 1:63 360.

141 **EAGLE HARBOR, MICH.** Preliminary chart of Eagle Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1855. scale, 1: 5 000.

139 ——Same. no place, 1859. scale, 1: 10 000.

22 **EAST ALBANY, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany and Bath. N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.

87 **EASTON, MASS.** H. F. Walling. N. Y., 1855. scale, 1: 15 000.

116 **EDGARTOWN HARBOR, MASS.** U. S.-Coast Survey. no place, 1848. scale, 1: 20 000.

Qf—(*Continued*).

350 **EDINBURGH, SCOTLAND.** Map. no place, no date. sheet, 21 x 16, pap. no scale given.

14 ——Plan of the City of Edinburgh and Town of Leith, with their environs, showing all the recent and intended improvements, lines of railway, etc. James Kirkwood & Son. no place, no date. scale about 360 ft. to 1 in.

345 **EGYPT.** Special large scale war map of the Soudan, extending to Suakim on the Red Sea, with enlarged plan of Khartum, 1885. George Phillip & Son, pub. Lond., 1885. sheet, 31 x 22, pap. no scale given.

231 **ENGLISH CHANNEL.** From British and French surveys, corrected to Mar., 1871. U. S.-Hydrographic Office. Wash., 1871. 3 sheets. no scale given.

96 **ERIE, LAKE.** Compiled from surveys made in obedience to acts of Congress, requiring the survey of the Northern and North Western Lakes, and from other reliable information, 1849. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1853. scale, 1: 400 000.

99 ——West end of Lake Erie and Detroit River. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1852 (?) scale, 1: 120 000.

128 **ERIE RY.** Map of Erie Ry. and profiles of branches. Erie Ry. Co. N. Y., no date. scales: map, 20 miles to 1 in.; horizontal profile, 4 miles to 1 in.; vertical profile, 400 ft. to 1 in.

337 **EUROPE.** Map. N. Y., 1854. sheet, 26 x 24, pap. no scale given.

364 ——Map of the seat of war in the Danubian Principalities and Turkey, with the adjoining countries. ed. 10. W. and A. K. Johnston, pub. Edin., 1854. sheet, 27 x 21, pap. no scale given.

371 ——New map of the seat of war, comp. from the latest German and Austrian surveys, and comprising the Black Sea, Crimea, Danubian Provinces, Russia, Turkey in Asia, etc.; with plan of Kronstadt, St. Petersburg, and ground plan of siege operations before Sebastopol. G. S. Wells, pub. N. Y., 1855. sheet, 20 x 24, pap. no scale given.

441 ——Special-Karte der Eisenbahn-, Post- und Dampfschiff- Verbindungen Mittel Europa's, mit Angabe aller Eisenbahn- Post- und Dampfschiff-Stationen, Speditionsorte, Zoll- und Steuerämter, Bäder, Mineralquellen. C. J. C. Raab. Glogan, no date. sheet, 45 x 54, cl. scale about 4½ German miles to 1 in.

225 ——West coast of Europe from the Irish Channel to the Straits of Gibraltar; from the latest surveys up to 1872. U. S.-Hydrographic Office. Wash., 1872. no scale given.

88 **FAIR HAVEN, MASS.** Map. H. F. Walling. N. Y., 1855. scale. 1: 25 000.

239 **FALSE DUNGENESS HARBOR, WASH.** Reconnaissance of False Dungeness Harbor. U. S.-Coast Survey. no place, 1853. scale, 1: 30 000.

457 **FERROCARRIL CENTRAL DE VENEZUELA.** Plano general, parte de Caracas à Sta. Teresa. T. D. Weir. no place, no date. sheet, 14 x 20, pap. scale, 1: 100 000.

486 **FERROCARRIL DE LA GUAIRA À CARACAS.** Plano general. J. de Leon. no place, 1891. sheet, 19 x 21, pap. escala = 1 pulgada = 2 000 piés.

124 **FISHER'S ISLAND SOUND, CONN.** U. S.-Coast Survey. no place, 1847. scale, 1: 40 000.

208 **FLORIDA.** General reconnaissance of the western coast of Florida, 1848-51. U. S.-Coast Survey. no place, 1851(?) scale, 1 : 120 000.

390.9 ——Topographic atlas sheets of Florida. U. S.-Geological Survey. Wash., 1892-95. 7 sheets, 17 x 15, pap. scale, 1 : 62 500. contour intervals, 10 ft.

79 **FRAMINGHAM, MASS.** Map; comp. from the best authorities and from actual surveys. H. F. Walling. Bost., 1872. scale, 100 rods to 1 in.

377 **FRANCE.** Carte de la navigation intérieure de la France présentant le classement du réseau navigable en lignes principales et secondaires. Ministère des Travaux Publics. Paris, 1890. sheet, 36 x 41, pap. scale, 1 : 1 250 000.

438 ——Carte des chemins de fer de la France au 31, décembre, 1880. R. Hausermann. Note: Published by the *Revue Générale des Chemins de Fer*; for text see Feb. No., 1881. Paris, 1881. sheet, 20 x 36, cl. scale, 1 : 500 000.

498 ——Cartes des Canaux d'Orléans, de Briare, et de Loing; gravées par les ordres de Son Altesse Serenissime, Monseigneur le Duc d'Orléans. Ce receuil contient une carte générale des trois canaux, 8 cartes du Canal d'Orléans, 7 cartes du Canal de Briare, 5 cartes du Canal de Loing. Lattré. no place, no date. sheets, 23 x 16, pap. no scales given.

386 ——Map of the seat of the Franco-Prussian war. *Glasgow Weekly Herald.* Glasgow, 1870. sheet, 19 x 16, pap. no scale given.

334 ——Same. *London Graphic.* Lond., 1870. sheet, 25 x 16, pap. no scale given.

131 ——Tableau d'assemblage des six feuilles de la carte géologique de la France. Inspecteur Général des Mines. no place, 1841. 2 sheets. scale about 30 miles to 1 in.

Qf—(*Continued*).

56 **FRANKLIN COUNTY, ME.** Topographical map. H. F. Walling. N. Y., 1861 scale, 1 mile to 1 in.

47 **FRANKLIN COUNTY, MASS.** Map; based upon the trigonometrical survey of the state. H. F. Walling. Bost., 1858. scale, 240 rods to 1 in.

30 **FRANKLIN COUNTY, VT.** Map of the Counties of Franklin and Grand Isle, Vt.; from actual surveys. H. F. Walling. Bost., 1857. scale, 1 : 50 000.

189 **GALVESTON BAY, TEX.** Preliminary sketch of Galveston Bay. U. S.-Coast Survey. ed. 2. no place, 1852. scale, 1 : 200 000.

389.10 **GEORGIA.** Geologic atlas of the United States: Georgia folios. U. S.-Geologic Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1 : 125 000.

390.10 ——Topographic atlas sheets of Georgia. U. S.-Geological Survey. Wash., 1896-97. 18 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 50 and 100 ft.

165 **GERMANY.** Deutschland. E. von Sydow and Hermann Berghaus. ed. 3. Ber., 1861. scale, 1: 2 200 000.

412 ——Karte der deutschen Wasserstrassen unter besonderer Berücksichtigung der Tiefen- und Schleusenverhältnisse. Sympher and Maschke. Ber., 1887. sheet, 37 x 40, pap. scale, 1: 1 250 000.

335 ——Map of the seat of the Franco-Prussian War. *Illustrated London News.* Lond., 1870. sheet, 32 x 23, pap. no scale given.

334 ——Same. *London Graphic.* Lond., 1870. sheet, 25 x 16, pap. no scale given.

338 **GIBSON COUNTY, IND.** Map of Knox and Gibson Counties, Ind. Indiana-State Geologist. no place, 1873 (?) sheet, 28 x 25, pap. no scale given.

26 **GRAFTON COUNTY, N. H.** Topographical map. H. F. Walling. N. Y., 1860. scale about 1 mile to 1 in.

145 **GRAND ISLAND, MICH.** Preliminary chart of Grand Island and its approaches, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1: 25 000.

30 **GRAND ISLE COUNTY, VT.** Map of the Counties of Franklin and Grand Isle, Vt.; from actual surveys. H. F. Walling. Bost., 1857. scale, 1: 50 000.

491 **GRAND JUNCTION R. R.** Plan of the G. J. R. R., showing its connections with the Eastern, Maine Extension, Fitchburg, and Lowell Railroads. W. S. Dearborn. Bost., 1848. sheet, 51 x 40, pap. scale about 500 ft. to 1 in.

425 **GREAT BRITAIN.** Maps and sections of the railways of Great Britain. George Bradshaw. Lond., 1839. sheet, 65 x 40, cl. scale about 10 miles to 1 in.

175 **GREEN BAY, WIS.** Head of Green Bay and entrance to Fox River, Wis. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1853. scale, 1: 30 000.

111 ——North end of Green Bay, the islands at the entrance, and the N. W. shore of Lake Michigan. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place. 1864. scale, 1: 120 000.

109 ——South end of Green Bay, the islands at the entrance thereof and part of west shore of Lake Michigan. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1864 (?) scale, 1: 120 000.

22 **GREENBUSH, N. Y.** Map of the City of Albany, with villages of Greenbush, East Albany, and Bath, N. Y. E. Jacob. Albany, 1857. scale, 300 ft. to 1 in.

146 **GREENE COUNTY, VA.** Map; prepared by Jed Hotchkiss, Mar., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1 mile to 1 in.

81 **GRENVILLE COUNTY, CANADA.** Map of the united Counties of Leeds and Grenville, Canada West; from actual surveys. H. F. Walling. Kingston, 1861. scale, 1 mile to 1 in.

510 **GUAIRA HARBOR.** Plano general del puerto muelle tajamar de la Guaira. G. L. Houston. Caracas, 1891. sheet, 13 x 19, pap. scale, 1 : 4 000.

62 **GUATEMALA.** Mapa de la Republica de Guatemala, America Central. Teodoro Paschke. Guatemala, 1889. scale, about 10 miles to 1 in.

223 **HAMPDEN COUNTY, MASS.** Atlas. F. W. Beers and others. N. Y., 1870. 48 pp., il., maps, 15 x 13, ½ mor. various scales.

303 ——Map; based upon the trigonometrical survey of the state. H. F. Walling. Bost., 1855. scale, 1 : 47 520 or 240 rods to 1 in.

286 **HAMPSHIRE COUNTY, MASS.** County atlas. F. W. Beers. N. Y., 1873. 105 pp., maps. 15 x 13, ½ sh. no scales given.

74 ——Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. N. Y., 1860. scale, 240 rods to 1 in.

11 **HANCOCK COUNTY, ME.** Topographical map; from actual surveys. H. F. Walling. N. Y., 1860. scale about 1 mile to 1 in.

118 **HOLMES' HOLE HARBOR, MASS.** The Harbor of Holmes' Hole and the Harbor of Tarpaulin Cove. U. S.-Coast Survey. no place. 1847. scale, 1 : 20 000.

386 **HONDURAS.** Map of Honduras and San Salvador. Central America; showing the line of the proposed Honduras Interoceanic Ry. E. G. Squier. N. Y., 1854. sheet, 23 x 33, cl. no scale given.

Qf—(*Continued*).

3 **HUDSON COUNTY, N. J.** Sanitary and topographical map of Hudson County, N. J.; prepared for the National Board of Health, Washington, D. C., 1880. Spielmann & Brush. N. Y., 1880. scale, about 1 000 ft. to 1 in.

264 **HUDSON RIVER.** Preliminary chart. U. S.-Coast Survey. no place, 1868. 4 sheets. scale, 1 : 40 000.

170 **HUMBOLDT BAY, CAL.** Preliminary survey. U. S.-Coast Survey. no place, 1851. scale, 1 : 30 000.

125 **HUNTINGTON BAY, L. I.** U. S.-Coast Survey. no place, 1849. scale, 1 : 30 000.

160 **HURON BAY AND HURON ISLANDS, LAKE SUPERIOR**; projected from a trigonometrical survey made in 1866. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1869. scale, 1 : 300 000.

103 **HURON, LAKE.** General Chart of Lake Huron; projected from trigonometrical surveys under the orders of Capt. G. G. Meade and from other reliable information. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1860 (?) scale, 1 : 400 000.

107 ——South end of Lake Huron and the head of the St. Clair River. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859 (?) scale, 1 : 120 000.

199 **HYANNIS HARBOR, MASS.** U. S.-Coast Survey. no place, 1850. scale, 1: 30 000.

43 **IBERVILLE COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1⅛ miles to 1 in.

389.11 IDAHO. Geologic atlas of the United States: Idaho folios. U. S.-Geological Survey. Wash., 1894–98. 1 v., 22 x 18, pap. scale, 1 : 125 000.

390.11 ——Topographical atlas sheets of Idaho. U. S.-Geological Survey. Wash., 1892–98. 15 sheets, 17 x 15, pap. scale, 1 : 125 000. contour intervals, 100 ft.

390.12 ILLINOIS. Topographic atlas sheets of Illinois. U. S.-Geological Survey. Wash., 1890–99. 17 sheets, 17 x 15, pap. scale, 1 : 62 500. contour intervals, 10 and 20 ft.

270 **INDIA.** Eastern Bengal, Assam, Burmah and parts of China and Siam, mostly adapted from the maps of the Surveyor-General of India; with charts of the Irawadi River. Robert Gordon. Calcutta, 1880. 18 sheets. various scales.

263 **INDIAN OCEAN,** Indian and part of the N. and S. Pacific Oceans: from the Japan and China Sea United States Expedition, and the most recent British, French, Spanish and Dutch authorities. U. S.-Hydrographic Office. Wash., 1869. 2 sheets. no scale given.

267 **INDIAN TERRITORY.** Map of the States of Kansas and Texas, and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1 : 1 500 000.

390.14 ——Topographic atlas sheets of Indian Territory. U. S.-Geological Survey. Wash., 1898–99. 3 sheets, 17 x 15, pap. scale, 1 : 125 000. contour intervals, 50 ft.

IOWA. Maps and profiles of the Iowa railroads. Iowa-Board of Railroad Commissioners. 1881. (See Ah-14, Annual report for 1881, v. 2.)

390.15 ——Topographic atlas sheets of Iowa. U. S.-Geological Survey. Wash., 1899–99. 24 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

95 **ISLE ROYALE.** Chart of Isle Royale including northwest coast of Lake Superior. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1871 (?) scale, 1:120 000.

235 **ITALY.** Carta corografica della Divisione di Genova. Torino, 1858. scale, 1: 240 000.

12 **JACKSONVILLE, FLA.** Map of the City of Jacksonville and suburbs. Duval County, Fla. J. F. Le Baron. Jacksonville, 1885. scale, 360 ft. to 1 in.

321 **JAPAN.** Geological and topographical maps of the oil lands of Japan. Japan-Geological Survey. no place, 1882. scales: 1: 60 000; 1: 2 000 000.

34 **JERSEY CITY, N. J.** City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about ½ mile to 1 in.

21 ——New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.

236 ——Title and assessment map of that part of Jersey City which constituted the City of Bergen prior to consolidation in 1870, from the records and verified by surveys. N. Y., 1882. scale, 200 ft. to 1 in.

267 **KANSAS.** Map of the States of Kansas and Texas and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1: 1 500 000.

390.16 ——Topographic atlas sheets of Kansas. U. S.-Geological Survey. Wash., 1891–98. 65 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 20 and 50 ft.

Qf—(*Continued*).

426 **KANSAS PACIFIC R. R.** Map of the route of the Southern Continental R. R., with connections from Kansas City, Mo., Ft. Smith, Ark., and Shreveport, La.; giving a general view of the recent surveys of the K. P. Ry. Co., made in 1867 and 1868, under the direction of William J. Palmer; together with compilations from Keeler's official map showing the central and northern routes to the Pacific. Wash., no date. sheet, 40 x 23, pap. scale, 60 miles to 1 in.

159 **KELLEY'S ISLAND.** Kelley's and Bass Islands, showing the harbors of refuge in their vicinity, being an extract from the survey of the west end of Lake Erie. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) Wash., 1852. scale, 1:50 000.

508 **KENNEBEC RIVER.** Chart of the Kennebec River from Augusta to Gardiner. no place, 1837. sheet, 21 x 32, pap. scales: horizontal, about 625 ft. to 1 in.; vertical, about 12 ft. to 1 in.

505 ——Survey of Kennebec River; drawn by N. B. Bennet. J. K. Findlay and others. no place, no date. sheet, 26 x 47, pap. scale about ¼ mile to 1 in.

389.17 **KENTUCKY.** Geologic atlas of the United States: Kentucky folios. U. S.-Geological Survey. Wash., 1894–98. 1 v., 22 x 18, pap. scale, 1:125 000.

284 ——Preliminary map of Kentucky and maps of counties, agricultural map of the Jackson Purchase and a map of the Cumberland Mountain System. Kentucky-Geological Survey. N. Y., 1891-92. 20 sheets. various scales.

427 ——Railway map of Kentucky. E. Mendenhall and A. H. Cropper, pub. Cin., 1860. sheet, 25 x 16, cl. scale about 18 miles to 1 in.

390.17 ——Topographic atlas sheets of Kentucky. U. S.-Geological Survey. Wash., 1896–97. 15 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.

185 **KEY WEST HARBOR, FLA.** Preliminary chart of Key West Harbor and approaches. U. S.-Coast Survey. no place, 1851. scale, 1:100 000.

71 **KINGS COUNTY, N. Y.** Topographical map of the Counties of Kings and Queens, N. Y. H. F. Walling. N. Y., 1859. scale, 1:40 000.

454 **KINGSTON, NAPANEE & WESTERN RY.** Rathburn system, comprising the Bay of Quinte Ry. & Navigation Co., the K., N. & W. Ry. Co., the Thousand Islands Ry. Co., the Deseronto Navigation Co., Ltd., and connections. Chic., no date. sheet, 11 x 8, pap. no scale given.

333 **KNOX COUNTY, IND.** Map of Knox and Gibson Counties, Ind. Indiana-State Geologist. no place, 1873 (?) sheet, 28 x 25, pap. no scale given.

298 **LABRADOR.** Chart of Newfoundland and part of the coast of Labrador. James Imray & Son, pub. Lond., 1855. no scale given.

249 **LAKE SHORE & MICHIGAN SOUTHERN RY.** Map of the L. S. & M. S. Ry., and its connections; comp. fr. the latest sources and showing the true location of each road. Lake Shore & Michigan Southern Ry. Co. Buffalo, 1873. no scale given.

110 **L'ANSE.** L'Anse, including portage entry and part of Keweenaw Bay, Lake Superior. U. S.-Corps of Engineers. (Survey of Northern and North Western Lakes.) no place, 1866. scale, 1:30,000.

238 **LAREDO, TEX.** Map of location between Laredo and Monterey. Mexican National Construction Co. no place, no date. scale about 8 miles to 1 in.

81 **LEEDS COUNTY, CANADA.** Map of the united counties of Leeds and Grenville, Canada West; from actual surveys. H. F. Walling. Kingston, 1861. scale, 1 mile to 1 in.

232 **LEGHORN, ITALY.** Planta geometrica della Citta' di Livorno e progetto artistico della sua sistemazione generale. no place, 1849 (?) scale, 1:5 000.

502 **LEHIGH COAL & NAVIGATION COMPANY'S COAL PROPERTY.** Map of coal property near Mauch Chunk, Pa. R. P. Rothwell. Phil., 1869. scale, 1 000 ft. to 1 in.

428 **LEHIGH VALLEY R. R.** Map of the L. V. R. R. and leased lines, with their connections; rev. by J. Oppermann. R. H. Sayre. N. Y., 1871. sheet, 21 x 13, pap. scale about 18 miles to 1 in.

429 ——Map showing the L. V. R. R. system in the anthracite coal fields of Pennsylvania. Leo von Rosenberg, pub. N. Y., 1887. sheet, 24 x 16, pap. scale about 8 miles to 1 in.

14 **LEITH, SCOTLAND.** Plan of the City of Edinburgh and Town of Leith, with their environs, showing all the recent and intended improvements, lines of railway, etc. James Kirkwood & Son. no place, no date. scale about 360 ft. to 1 in.

196 **LITTLE EGG HARBOR.** U. S.-Coast Survey. no place, 1846. scale, 1:30 000.

472 **LONDON, ENG.** Improved "District Railway" map of London. ed. 2. no place, no date. sheet, 26 x 42, pap. scale about ¼ mile to 1 in.

431 ——London railway travelling made easy; showing at a glance what station to go to, to get to any part of London or suburbs. R. J. Cook. Lond., 1870. sheet, 32 x 24, pap. scale, ½ mile to 1 in.

479 ——Map of the contours of London and its environs, showing the districts and areas supplied by the nine metropolitan water-works' companies. R. W. Mylne. Lond., 1856. sheet, 48 x 63, cl. scale, 1:17 032. contour intervals, 10 ft.

Qf—(*Continued*).

251 ——Maps of London and its environs. Great Britain-Ordnance Survey. Note: Skeleton plan; many sheets wanting. Southampton, 1848-50. 2 sheets. scale about 1 056 ft. to 1 in.

489 ——Metropolitan District Ry. and lines in connection therewith. Lond., 1858. sheet, 20 x 15, pap. no scale given.

——Railways terminating in London; with a description of the terminal stations, and underground railways. Samuel Rea. 1888. (See Ae-251.)

474 ——Smith's map of proposed metropolitan railways and improvements. Smith & Son, pub. Lond., 1866. sheet, 25 x 21, pap. scale about 4 200 ft. to 1 in.

490 **LONDON & NORTHWESTERN RY.** Map of the L. & N. W. Ry., and its communications. Lond., 1887. sheet, 15 x 11, pap. scale about 32 miles to 1 in.

218 **LONG ISLAND.** Western part of the southern coast of Long Island. U. S.-Coast Survey. no place, 1851. scale, 1: 80 000.

390 **LONG ISLAND CITY, N. Y** Plan of Long Island City, comp. from maps of different parts of the city in existence at the time of the organization of the Commission of Streets, Roads, Avenues and Parks in May, 1871. no place, no date. scale, 1: 10 000.

506 **LOUISIANA.** Section of Hardee's map of Louisiana; showing coast plantations below New Orleans and location of Ead's jetties at South Pass. T. S. Hardee. no place, 1877. sheet, 17 x 16, pap. scale about 6 miles to 1 in.

390.18 ——Topographic atlas sheets of Louisiana. U. S.-Geological Survey. Wash., 1891-94. 34 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 5 ft.

492 **LOUISVILLE, KY.** Map of Louisville, Ky., showing the Kentucky and Indiana Bridge and its connections. no place, 1881. sheet, 14 x 16, pap. no scale given.

73 **LYCOMING COUNTY, PA.** Topographical map; from actual surveys. H. F. Walling. N. Y., 1861. scale, 1 mile to 1 in.

70 **MACKINAC, STRAITS OF.** Straits of Mackinac with the approaches thereto from Lakes Huron and Michigan and the entrance by the Détour Passage to the St. Mary's River; from trigonometrical surveys. U. S.-Bureau of Topographical Engineers. no place. 1874 (?) scale, 1: 120 000.

507 **MAIN RIVER.** Uebersichtsplan der Main-Canalisirung von Frankfurt bis Mainz und der Hafenanlagen zu Frankfurt-am-Main. Frankfurt-am-Main, 1885. sheet, 27 x 19, pap. scale, 1: 5 000.

76 **MAINE.** Map of the State; from surveys made by the United States Coast Survey, from the British and American Boundary Commissioners' Survey, from the State Land Survey, and the New Brunswick Provincial Surveys; drawn on the rectangular polyconic projection, according to the United States Coast Survey Tables. H. F. Walling and J. Chace, Jr. Portland, 1862. scale, 5 miles to 1 in.

390.19 ——Topographic atlas sheets of Maine. U. S.-Geological Survey. Wash., 1890-98. 24 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

470 **MANCHESTER SHIP CANAL CO.** District map showing existing canals and navigations connecting with Manchester. Manchester, 1892 (?) sheet, 22 x 37, pap. scale about 2 miles to 1 in.

143 **MARQUETTE HARBOR, MICH.** Preliminary chart of Marquette Harbor, Lake Superior. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1: 5 000.

343 **MARSEILLES, FRANCE.** Plan de Marseille, indiquant les travaux projetés. Marseille, 1865. sheet, 20 x 16, pap. no scale given.

355 **MARYLAND.** New topographical atlas of the State of Maryland and the District of Columbia, with descriptions, historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet, H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13, ½ mor. various scales.

390.20 ——Topographic atlas sheets of Maryland. U. S.-Geological Survey. Wash., 1890-99. 35 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 20 ft.

MASSACHUSETTS. Geographic dictionary of Massachusetts. Henry Gannett. 1894. (See Yh-87, No. 116.)

280 ——Official topographical map, from astronomical, trigonometrical and various local surveys. H. F. Walling and O. W. Gray, comp. no place, 1871. 100 pp., maps, 16 x 14, ¾ mor. various scales.

390.21 ——Topographic atlas sheets of Massachusetts. U. S.-Geological Survey. Wash., 1888-90. 60 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

396 ——Topographic map; comp. from the original sheets of a map made under the auspices of the United States and the Commonwealth of Massachusetts in 1884 to 1887. U. S.-Geological Survey. N. Y., 1889. sheet, 32 x 50, pap. scale, 1 : 125 000. contour intervals, 100 ft.

256 ——Topographical map; comp. from astronomical, trigonometrical, and various local surveys; made by order of the Legislature; Simeon Borden, Superintendent. Bost., 1844. 6 sheets. scales: 2½ miles to 1 in., or 1: 158 400; 5 miles to 1 in., or 1: 316 800.

Qf—(*Continued*).

9 ——Topographical map; based on the trigonometrical survey by Simeon Borden; the details from actual surveys under the direction of H. F. Walling. N. Y., 1861. scale, 2½ miles to 1 in.

176 **MAUMEE BAY.** Surveyed and drawn under the direction of Captain Geo. G. Meade, in 1857. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1857 (?) scale, 1:30 000.

205 **MESSINA, N. Y.** Messina, locally known as East Syracuse; De Witt freight station on the N. Y. C. & H. R. R. R.; Town of De Witt. H. W. Clarke. no place, no date. scale, 400 ft. to 1 in.

433 **MEXICAN NATIONAL RY.** Map of the M. N. Ry., including its proposed extension and connections. no place, 1880. sheet, 27 x 36, pap. scale, 83¼ miles to 1 in.

442 ——Map of the M. N. Ry., showing the lines granted by the Mexican Government to the M. N. Construction Co., Palmer-Sullivan Concession. no place, 1881. sheet, 30 x 45, pap. scale, 1:3 000 000.

7 **MEXICO.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.

385 ——Map; showing railroads completed, proposed, and in construction. Leo Rosenberg. N. Y., 1881. sheet, 14 x 10, pap. scale about 140 miles to 1 in.

35 ——Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.

6 ——Nuevo mapa estadistico de Mexico en que se marcan los productos de las diferentes zonas, las lineas de ferrocarriles actuales y proyectadas, las lineas telegraficas cables, alturas, y poblaciones. A. K. Owen. Phil., 1884. scale about 30 miles to 1 in.

97 ——Plano orografico de la zona recorrida por el ferro-carril Mexicano de Veracruz a Mexico. A. G. Cubas. Mexico, 1877. scale about 6¾ miles to 1 in.

387 ——Texas-Topolobampo Pacific R. R. and Telegraph Line, Mex. N. Y., no date. sheet, 13 x 18, pap. scale about 140 miles to 1 in.

439 ——Transportation lines between the United States and Mexico, showing differences of elevation. no place, 1884. sheet, 23 x 17, pap. no scale given.

211 **MEXICO, GULF OF.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.

217 ——North coast of the Gulf of Mexico; from the United States Coast Survey and the most recent authorities. U. S.-Hydrographic Office. Wash., 1870. 2 sheets. no scale given.

357 **MICHIGAN.** Atlas of the State, including statistics and descriptions of its topography, hydrography, climate, natural and civil history, railways, educational institutions, material resources, etc., by Alexander Winchell, C. I. Walker, Oramel Hosford, Henry M. Utley, and Ray Haddock. H. F. Walling, ed. and comp. Detroit, 1873. 162 pp., maps, 18 x 13, ½ mor. various scales.

390.22 ——Topographic atlas sheets of Michigan. U. S.-Geological Survey. Wash., 1895–99. 7 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.

162 **MICHIGAN, LAKE.** North and north east end of Lake Michigan. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1855–67. 3 sheets. various scales: 1:120 000 to 1:400 000.

64 **MIDDLEBOROUGH, MASS.** Map; surveyed by order of the Town. H. F. Walling. N. Y., 1855. scale, 1:24 000.

23 **MIDDLESEX COUNTY, N. J.** Map; from actual surveys. H. F. Walling. N. Y., 1861. scale about ½ mile to 1 in.

61 **MILWAUKEE, WIS.** Map. H. F. Walling. N. Y., 1859. scale, 1:7 920.

390.23 **MINNESOTA.** Topographic atlas sheets of Minnesota. U. S.-Geological Survey. Wash., 1895. sheet, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.

43 **MISSISQUOI COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1⅛ miles to 1 in.

390.24 **MISSISSIPPI.** Topographic atlas sheets of Mississippi. U. S.-Geological Survey. Wash., 1893. sheet, 17 x 15, pap. scale, 1:62 500. contour intervals, 5 ft.

508 **MISSISSIPPI RIVER.** Chart of the head of the Passes of the Mississippi River, showing the position of the works and the changes from May, 1875, to Apr., 1878. E. L. Corthell. no place, no date. sheet, 41 x 54, cl. scale about 200 ft. to 1 in.

478 ——Course of the River Mississippi, from the Balise to Fort Chartres, taken on an expedition to the Illinois in the latter end of the year 1765. no place, 1892. sheet, 47 x 15, pap. scale about 14⅞ miles to 1 in.

488 ——Delta of the Mississippi, including the river to and above Forts Jackson and St. Philip and the contiguous Gulf waters and Fort St. Philip Ship Canal. U. S.-Coast and Geodetic Survey. no place, 1874 (?) no scale given.

Qf—(*Continued*).

497 ——Detail map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. N. Y., no date. 88 sheets, 25 x 20, cl. scale, 1 : 20 000.

495 ——Lloyd's map of the Lower Mississippi River from St. Louis to the Gulf of Mexico; comp. from Government surveys in the Topographical Bureau, Washington, D. C. J. T. Lloyd, pub. N. Y., 1862. sheet, 39 x 53, cl. scale about 5 miles to 1 in.

239 ——Map of the alluvial valley of the Mississippi River from the head of St. Francis Basin to the Gulf of Mexico, showing lands subject to overflow, location of levees and trans-alluvial profiles. Mississippi River Commission. no place, 1887. 8 sheets. scale, 5 miles to 1 in.

379 ——Map of the course of the Mississippi, from the Missouri and the country of the Illinois to the mouth of this river. no place, no date. blue print, 35 x 11, pap. no scale given.

494 ——Map of the crevasses of the Mississippi River and the overflowed portions of Arkansas, Mississippi, and Louisiana; from notes furnished by H. B. Thompson, Secretary of the Board of State Engineers of Louisiana, and from investigations up to date. New Orleans Lithographic Co., pub. New Orleans, 1882. sheet, 37 x 24, pap. scale about 12 miles to 1 in.

482 ——Map of the Lower Mississippi River; from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. no place, 1881-97. 32 sheets, 15 x 12, cl. scale about 10 miles to 1 in.

404 ——Map of the Mississippi River from Cairo to Donaldsonville, showing bank erosion as derived from special survey made Nov. 20th, 1891, to Mar. 20th, 1892, showing also the controlling line of levees in 1892. Mississippi River Commission. no place, 1892. 26 sheets, 15 x 24, pap. no scale given.

227 ——Maps of Cherokee, Sam Phillips, Point Pleasant and Medley Bars, showing results of dredging operations, season of 1895. Mississippi River Commission. no place, 1896 (?) 18 sheets. scale, 200 ft. to 1 in.

509 ——Mississippi River from St. Louis to the sea; comp. and prepared from the official reports of recent surveys made by the United States Government; from the reports of state engineers, and from other reliable sources. J. A. Ockerson and C. W. Stewart. St. Louis, 1892. 41 sheets, 8 x 14, pap. scale, 2 miles to 1 in.

486 ——Mississippi River from the Passes to Grand Prairie, La. U. S.-Coast and Geodetic Survey. (Coast Chart No. 94.) no place, 1879. sheet, 39 x 30, pap. scale about 1: 609.33 metres.

490 ——Preliminary map of the Lower Mississippi River from the mouth of the Ohio River to the head of the Passes. Mississippi River Commission. no place, 1881-85. 32 sheets, tab., 15 x 24, ½ skiv. scale, 1 mile to 1 in

302 **MISSOURI.** Atlas accompanying reports of Missouri Geological Survey, 1874. Jefferson City, 1874. sheets, 15 x 13, pap. no scale given.

380.25 ——Topographic atlas sheets of Missouri. U. S.-Geological Survey. Wash., 1887-98. 31 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 50 ft.

481 **MISSOURI RIVER.** Map; from surveys made in accordance with acts of Congress approved June 18th, 1878, and Mar. 3d, 1879, under the direction of Major Chas. R. Suter, by D. W. Wellman. U. S.-Corps of Engineers. N. Y., no date. sheets, 26 x 14, cl. scale, 1 mile to 1 in.

171 ——The Missouri River from Ft. Benton, Mont., to Sioux City, Ia.: Charts Nos. 1-198. U. S.-Corps of Engineers. Note: Chart No. 38 wanting. no place, 1891-92. 197 sheets. scale, 1: 12 000.

126 **MOBILE BAY.** Entrance to Mobile Bay. U. S.-Coast Survey. no place, 1851. scale, 1: 40 000.

169 ——Preliminary sketch of Mobile Bay. U. S.-Coast Survey. no place, 1851. scale, 1: 200 000.

51 **MONMOUTH COUNTY, N. J.** Map. S. N. and F. W. Beers. N. Y., 1860. scale, 200 rods to 1 in.

389.26 **MONTANA.** Geologic atlas of the United States: Montana folios. U. S.-Geological Survey. Wash., 1894-98. 3 v., 22 x 18, pap. scales: 1: 15 000; 1: 250 000.

399 ——(Silver Bow Co.): Butte special map. U. S.-Geological Survey. no place, 1897. sheet, 17 x 24, pap. scale, 1: 150 000. contour intervals, 20 ft.

380.26 ——Topographic atlas sheets of Montana. U. S.-Geological Survey. Wash., 1891-94. 16 sheets, 17 x 15, pap. scales: 1: 125 000; 1: 250 000. contour intervals, 50, 100 and 200 ft.

117 **MONTEREY HARBOR, CAL.** U. S.-Coast Survey. no place, 1852. scale, 1: 40 000.

351 **MONTREAL, QUE.** Complete map of Montreal and vicinity, 1881. Dawson Brothers, pub. Montreal, 1881. sheet, 45 x 19, pap. no scale given.

361 ——Mount Royal: Design map. N. Y., 1877. sheet, 17 x 21, pap. no scale given.

MONTREAL HARBOR. Plan of part of the City of Montreal shewing as regards its present harbor, the existing piers, the improvements suggested by the Harbour Commissioners and those recommended by John C. Trautwine. Montreal, 1858 (?) sheet, 29 x 34, b. p. Cc-68, p. 199.

Qf—(*Continued*).

94 **MORRISANIA, N. Y.** Map. L. D. V. Mason and G. S. Greene, Jr. no place, 1871. scale, 400 ft. to 1 in.

90 ——Map. J. C. Bukhout and W. G. Livingston. N. Y., 1856. scale about 425 ft. to 1 in.

88 ——Map; from actual surveys. F. W. Beers. N. Y., no date. scale, 300 ft. to 1 in.

317 **MOSCOW, RUSSIA.** Plan of the City of Moscow. no place, no date. scale, 1 680 ft. to 1 in.

325 **NANTES, FRANCE.** Plan géométrique de la Ville de Nantes. F. J. Pinson. Nantes, 1864. scale, 1:5 000.

75 **NANTUCKET COUNTY, MASS.** Map of the Counties of Barnstable, Dukes and Nantucket, Mass.; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1858. scale, 1:63 360.

190 **NANTUCKET HARBOR, MASS.** U. S.-Coast Survey. no place, 1848. scale, 1:20 000.

67 **NATICK, MASS.** Map; surveyed by order of the Town. H. F. Walling. Phil., 1853. scale, 64 rods to 1 in.

390.27 **NEBRASKA.** Topographic atlas sheets of Nebraska. U. S.-Geological Survey. Wash., 1894–99. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 20 ft.

268 **NEVADA.** Map showing detailed topography of the country traversed by the reconnaissance expedition through Southern and Southeastern Nevada. U. S.-Corps of Engineers. no place, 1869. scale, 12 miles to 1 in.

390.28 ——Topographic atlas sheets of Nevada. U. S.-Geological Survey. Wash., 1896–98. 10 sheets, 17 x 15, pap. scales: 1:125 000; 1:250 000. contour intervals, 100, 200 and 250 ft.

183 **NEW BEDFORD HARBOR, MASS.** U. S.-Coast Survey. no place, 1850. scale, 1:40 000.

390.29 **NEW HAMPSHIRE.** Topographic atlas sheets of New Hampshire. U. S.-Geological Survey. Wash., 1891–98. 6 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.

483 **NEW HAVEN HARBOR, CONN.** Map of New Haven and its harbor in the State of Connecticut. F. R. Hassler. (25th Cong., 3d Sess. House doc. No. 202.) Wash., 1839. sheet, 9 x 6, pap. scale, 1:10 000.

191 ——U. S.-Coast Survey. no place, 1846. scale, 1:30 000.

NEW JERSEY. Atlas. New Jersey-Geological Survey. 1888–90. various scales. (See Yh-25, v. 4.)

359 ——Atlas of the Metropolitan District and adjacent country; showing in a series of maps the relative geographical position, the topography, hydrography, and economic features of this area; from original surveys by J. R. Bien and C. C. Vermeule, the United States Coast and Geodetic Survey and the Geological Survey of New Jersey. Julius Bien & Co., pub. N. Y., 1891. 13 sheets, 23 x 18, ¾ ro. no scale given.

——Geographic dictionary of New Jersey. Henry Gannett. 1894. (See Yh-87, No. 118.)

37 ——Geological map of New Jersey; the geographical material compiled and drawn by G. M. Hopkins from the State Topographical Survey, from data furnished by the United States Coast Survey, and from official records and original surveys; based upon the United States Coast Survey Triangulation. New Jersey-Geological Survey. no place, 1868. scale, 2 miles to 1 in.

108 ——Map of the clay district of Middlesex Co., showing location of beds of stoneware clay, kaolin and fire clay. New Jersey-Geological Survey. N. Y., 1875. scale, ⅛ mile to 1 in.

135 ——Northern New Jersey, showing the iron-ore and limestone districts. New Jersey-Geological Survey. N. Y., 1874. scale, 2 miles to 1 in.

390.30 ——Topographic atlas sheets of New Jersey. U. S.-Geological Survey. Wash., 1881–99. 48 sheets. 17 x 15, pap. scale, 1:62 500. contour intervals, 10 and 20 ft.

413 ——Topographical map of a part of Northern New Jersey; from surveys and levelings made, and local surveys corrected, by George W. Howell and C. C. Vermeule, upon a projection made by the United States Coast and Geodetic Survey. no place, 1882. sheet, 38 x 22, pap. scale, 1 mile to 1 in. contour intervals, 10 and 20 ft.

313 ——Topographical map of Kittatinny Valley and Mountain in Sussex County and the northern part of Warren; from original surveys and levelings, based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1886. scale, 1 mile to 1 in.

314 ——Topographical map of the Southwestern Highlands, with the southwest portion of Kittatinny Valley; from original surveys and levelings based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1885. scale, 1 mile to 1 in.

120 **NEW LONDON HARBOR, CONN.** U. S.-Coast Survey. no place, 1848. scale, 1:20 000.

Qf—(*Continued*).

349 **NEW MEXICO.** Map of the Territory of New Mexico; comp. by Jno. G. Parke; assisted by Richard H. Kern, by order of Jno. Munroe, U. S. A., commanding 9th Mil. Dept., drawn by R. H. Kern, Santa Fé, N. M., 1851; constructed under general orders from J. J. Abert, Chief, Corps of Topographical Engineers. U. S.-Bureau of Topographical Engineers. N. Y., 1851. sheet, 37 x 26, pap. no scale given.

380.31 ——Topographic atlas sheets of New Mexico. U. S.-Geological Survey. Wash., 1889–99. 16 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 and 200 ft.

275 **NEW ORLEANS, LA.** Plan of proposed improvements for the Lake Shore front of the City of New Orleans, showing location of embankment, pumping machinery, locks, harbors, rail and shell roads and public grounds. New Orleans, 1873. scale about 500 ft. to 1 in.

328 ——Plan of the City of New Orleans and the adjacent plantations. Carlos Trudeau. no place, no date. sheet, 22 x 16, pap. no scale given.

276 ——Sketch of draining sections of New Orleans, showing present canals, with proposed protection levees and reservoir canals. New Orleans-City Surveyor. New Orleans, 1872. sheet, 16 x 15, pap. no scale given.

494 ——Topographical and drainage map of New Orleans and surroundings from recent surveys and investigations. T. S. Hardee. no place, 1879. sheet, 24 x 24, pap. scale, 2 500 ft. to 1 in.

381 **NEW ORLEANS, OPELOUSAS & GREAT WESTERN R. R.** Map exhibiting the fixed location of the main trunk of the N. O., O. & G. W. R. R., of La., together with its proposed branches, connections and extensions. G. W. R. Bayley. New Orleans, 1859. sheet, 37 x 28, pap. scale, 20 miles to 1 in.

NEW SOUTH WALES. Sketch map of New South Wales showing the localities of the principal minerals. J. Taylor. 1876. (See Yh-67.)

315 **NEW YORK & CROTON RIVER EXTENSION R. R.** Map and profile of located line of the N. Y. & C. R. E. R. R., also of the New York, Westchester & Boston Ry. from P. M. Branch of N. Y. & Harlem R. R. to the Bronx River. W. R. Bergholz. no place, no date. scale 400 ft. to 1 in.

448 **NEW YORK & HARLEM R. R.** Map showing the route of the Harlem R. R. between New York and Albany and its connexion with eastern and northern railroads. N. Y., 1847. sheet, 18 x 26, pap. scale about 10½ miles to 1 in.

358 **NEW YORK CITY.** Atlas of the City of New York, embracing all territory within its corporate limits; from official records, private plans, and actual surveys by and under the supervision of E. Robinson and R. H. Pidgeon. N. Y., 1885. 4 pl., maps, 19 x 15, ½ mor. scales: 200 and 300 ft. to 1 in.

350 ——Atlas of the Metropolitan District and adjacent country, showing in a series of maps the relative geographical position, the topography, hydrography, and economic features of this area; from original surveys by J. R. Bien and C. C. Vermeule, the United States Coast and Geodetic Survey and the Geological Survey of New Jersey. Julius Bien & Co., pub. N. Y., 1891. 13 sheets, 23 x 18, ¾ ro. scale, ½ mile to 1 in.

352 ——Atlas of New York and vicinity, from actual surveys by and under the direction of F. W. Beers, assisted by A. B. Prindle and others. N. Y., 1868. sheets, tab., 18 x 15, ½ mor. various scales.

34 ——City and county map of New York, Brooklyn, Williamsburgh, Jersey City and the adjacent waters. J. H. Colton. N. Y., 1862. scale about ⅛ mile to 1 in.

33 ——Ensign, Bridgman & Fanning, pub. N. Y., 1856. scale about 1 000 ft. to 1 in.

86 ——Galt & Hoy, pub. N. Y., 1879. no scale given.

407 ——General index of maps filed in the Register's office, New York City, N. Y.; published with additional notes. Spielman & Brush. Hoboken, 1881. 7 + 66 pp., maps, 26 x 18, pap.

336 ——Map of the Cities of New York, Brooklyn, Long Island City, Jersey City and Hoboken. N. Y., no date. sheet, 28 x 22, pap. scale about 2 500 ft. to 1 in.

473 ——Map of the City of New York; showing the main line, branches, and connections of the Broadway Underground Ry. G. W. and C. B. Colton & Co., pub. N. Y., no date. map, 23 x 42, pap. no scale given.

290 ——Map of the Harlem River and Spuyten Duyvil Creek from Ward's Island to the Hudson River, N. Y.; showing project for a covered waterway 60 ft. wide, to be built on the west line of the Harlem River, from the easterly side of Third Ave. to 165th St., New York City, and filling in between the points named so that the avenues and streets of Harlem may be extended into Morrisania; comp. and enlarged from the published War Department map of the pierhead and bulkhead lines "of both shores of the Harlem River and Spuyten Duyvil Creek." no place, 1890. scale, 400 ft. to 1 in.

10 ——Map of the northern portion of the City of New York, comprising the 12th Ward and the new 23d and 24th Wards. Croes and Van Winkle. N. Y., 1873–74. scale about 1 000 ft. to 1 in.

291 ——Map of the 23d Ward, New York City, from official records and surveys. F. W. Beers. Note: v. 2 wanting. N. Y., no date. 1 v., 23 x 15, ¾ ro. scale, 150 ft. to 1 in.

Qf—(*Continued*).

48 ——Map showing the high and low water mark and the original city grants of lands under water made to various parties from 1686 to 1873, extending from the Battery to Fifty-first Street, Hudson and East Rivers, New York City; also the several pier and bulkhead lines established from 1730 to 1873; comp. by Charles K. Graham, Engineer-in-Chief. New York City-Department of Docks. N. Y., 1873. scale, 300 ft. to 1 in.

21 ——New map of New York, Brooklyn, Jersey City, etc. Gaylord Watson. N. Y., 1872. no scale given.

397 ——New York and vicinity; surveyed in 1888–89. U. S.-Geological Survey. no place, 1892. sheet, 49 x 36, pap. scale, 1 : 62 500. contour intervals, 20 ft.

397*a* ——Same; surveyed in 1887, '88, '89 and '97. no place, 1899. sheet, 49 x 36, pap. scale, 1 : 62 500. contour intervals, 20 ft.

374 ——Plan of New York City, from the Battery to Spuyten Duyvil Creek, showing every lot and building thereon; old farm lines, street numbers at the corners of blocks, railroads, steamboat landings, bulkhead and pier lines, etc.; based on the surveys made by Randall and Blackwell, and on the special surveys made by J. F. Harrison. Matthew Dripps, pub. N. Y., 1867. pl., 24 x 19, ¾ mor. no scale given.

68 ——Plan of the City of New York from an actual survey. James Syne. Note: Facsimile of map of New York published in 1728. N. Y., 1874. scale about 220 ft. to 1 in.

188 ——Plan of the City of New York in North America; surveyed in the years 1766 and 1767. B. Ratzer. no place, no date. scale about 833⅓ ft. to 1 in.

206 **NEW YORK HARBOR.** Hell Gate and its approaches. U. S.-Coast Survey. no place, 1851. scale, 1: 5 000.

419 ——New York Bay and Harbor, N. Y. U. S.-Coast Survey. no place, 1866. scale, 1: 80 000.

207 ——New York entrance. U. S.-Coast Survey. no place, 1867. scale, 1: 40 000.

296 **NEW YORK STATE.** Atlas of the State of New York, designed for the use of engineers, containing a map of the State and of the several counties. Stone & Clark, pub. Ithaca, 1839. 4 pp., maps, 14 x 11, ¾ sh. scale about 21⅓ miles to 1 in.

444 ——Colton's new railroad and township map of the State of New York; with parts of adjoining states and Canada. G. B. Colton. N. Y., 1856–57. 2 sheets, 29 x 35, pap. scale about 16⅜ miles to 1 in.

324 ——Economic and geologic map of the State of New York, showing the location and mineral deposits; by Frederick J. H. Merrill. New York State-University. N. Y., 1894. scale about 14 miles to 1 in.

60 ——Empire State. N. Y., 1861. scale about 15 miles to 1 in.

380 ——Map of northern New York showing the route of the Adirondack Ry. N. Y., no date. sheet, 17 x 14, pap. scale about 12 miles to 1 in.

259 ——Map of the Adirondack Wilderness and adjoining territory. New York-Forest Commissioners. no place, 1884. 6 sheets. scale about 1 mile to 1 in.

383 ——Map showing the position of the Albany and Susquehanna R. R. in relation to the other railroads of the States of New York, Pennsylvania and Massachusetts. N. Y., 1854. sheet, 28 x 35, pap. no scale given.

390.32 ——Topographic atlas sheets of the State of New York. U. S.-Geological Survey. Wash., 1891–99. 99 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

298 **NEWFOUNDLAND.** Chart of Newfoundland and part of the coast of Labrador. James Imray & Son, pub. Lond., 1855. no scale given.

493 **NEWPORT, R. I.** Drainage map of the City of Newport and part of Middletown, R. I. J. P. Cotton. N. Y., 1880. sheet, 17 x 13, pap. scale about 1 000 ft. to 1 in.

445 **NEWPORT NEWS & MISSISSIPPI VALLEY R. R.** System of railway lines, railroad and steamship connections. Chic., 1887. sheet, 44 x 32, pap. no scale given.

58 **NEWTON, MASS.** Map. H. F. Walling. N. Y., 1855. scale about 1 056 ft. to 1 in.

495 **NICARAGUA CANAL.** Map and profile of the route for the construction of a ship canal from the Atlantic to the Pacific Ocean, across the Isthmus in the State of Nicaragua, surveyed for the American, Atlantic and Pacific Ship Canal Co. O. W. Childs. N. Y., 1852. sheet, 36 x 114, bds. scale, map, 128 chains to 1 in. profiles: horizontal, 200 chains to 1 in.; vertical, 48 ft. to 1 in.

271 ——United States Nicaragua Survey, Western Division, from Brito to mouth of Rio Lajas; also showing Rio del Medio line and the channel for tapping the Rio Grande; comp. from surveys 1872 and 1873 and additional survey of 1880. A. G. Menocal. no place, no date. scale, 1: 20 000.

368 **NÎMES, FRANCE.** Plan de la Ville de Nîmes. Liotard & Liotard. no place, no date. sheet, 18 x 24, pap. scale, 1 cm.: 100 m.

395 **NORFOLK, VA.** Norfolk quadrangle; surveyed in 1888–91. U. S.-Geological Survey. no place, 1898. sheet, 17 x 23, pap. scale, 1: 125 000. contour intervals, 5 ft.

Qf—(*Continued*).

81 **NORTH AMERICA.** American Continent: Topographical and railroad map of the United States, British possessions, West Indies, Mexico, and Central America. R. Rosa, comp. N. Y., 1867. scale about 66⅔ miles to 1 in.

221 ——East coast of North America; from United States Coast Survey and most recent authorities. U. S.-Hydrographic Office. Note: Incomplete, Wash., 1870. no scale given.

7 ——Karte des nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.

220 ——North east coast of North America; from the British Admiralty and United States Coast Survey. U. S.-Hydrographic Office. Wash., 1868–72. 3 sheets. no scale given.

66 **NORTH BRIDGEWATER, MASS.** Map; surveyed by order of the Town. H. F. Walling and E. Whiting. Phil., 1853. scale, 1 000 ft. to 1 in.

92 **NORTH CAROLINA.** New map of the State of North Carolina, constructed from actual surveys, authentic public documents and private contributions. R. H. B. Brazier. Phil., 1833. scale about six miles to 1 in.

226 ——Physiographical map of North Carolina; W. C. Kerr, State Geologist. no place, no date. sheet, 11 x 28, pap. scale about 25 miles to 1 in.

220.33 ——Topographic atlas sheets of North Carolina. U. S.-Geological Survey. Wash., 1893–99. 15 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 100 ft.

220.34 **NORTH DAKOTA.** Topographic atlas sheets of North Dakota. U. S.-Geological Survey. Wash., 1894-97. 12 sheets, 17 x 15, pap. scales: 1: 62 500; 1: 125 000. contour intervals, 20 ft.

201 **NORTH EDISTO RIVER, S. C.** Preliminary sketch. U. S.-Coast Survey. no place, 1851. scale, 1: 50 000.

440 **NORTH PENNSYLVANIA R. R.** and its connections. Phil., 1853. sheet, 26 x 19, pap. no scale given.

446 **NORTH SIMCOE RY.** Map of the N. S. Ry. and its connections. Toronto, no date. sheet, 13 x 15, pap. scale, 10 miles to 1 in.

451 **NORTHERN PACIFIC R. R.** Map of the country tributary to the N. P. R. R.; comp. fr. English, Canadian and American official sources and original surveys. E. H. Knight. Note: This is the famous "Banana Belt" map. no place, 1871. sheet, 40 x 50, pap. no scale given.

447 ——Map of the N. P. R. R., its branches and allied lines. no place, no date. sheet, 29 x 18, pap. scale about 20 miles to 1 in.

274 **NORTHWEST TERRITORY.** Map of part of the N. W. Territory, including the Province of Manitoba; showing an approximate classification of the lands. J. Johnston. Montreal, no date. scale about 50 miles to 1 in.

54 **NORTON, MASS.** Map; surveyed by order of the Town. H. F. Walling. Bost., 1855. scale, 80 rods to 1 in.

273 **NOVA SCOTIA, CANADA.** Map of the Province of Nova Scotia, including the Island of Cape Breton; comp. fr. actual and recent surveys. A. and W. Mackinlay, pub. Halifax, 1882. sheet, 31 x 40, cl.

365 **OCONOMOWOC, WIS.** Map of the lakes and drives around Oconomowoc. Chicago, Milwaukee & St. Paul Ry. Co. no place, no date. sheet, 16 x 22, pap. scale, 1 mile to 1 in.

52 **OHIO.** Map. H. F. Walling. N. Y., 1866. scale, 1: 300 000.

452 ——New map; exhibiting the sections, fractional sections, townships, cities, villages, post-offices, railroads, canals, turnpikes, and plank roads. E. Mendenhall & Co., pub. Cin., 1853. sheet, 50 x 52, bds. scale about 5¼ miles to 1 in.

——Railroad and township map. N. Y., 1854. sheet, 23 x 30, b. p. scale about 12 miles to 1 in. Ag-6, p. 259.

220.35 ——Topographic atlas sheets, of Ohio. U. S.-Geological Survey. Wash., 1892. sheet, 17 x 15, pap. scale, 1: 125 000. contour intervals, 100 ft.

265 **OHIO RIVER,** between Mound City and Cairo. U. S.-Coast Survey. no place, 1864. scale about 1 920 ft. to 1 in.

490 **OIL CITY OIL FIELD.** Contour map of the Oil City Oil Field, Fresno Co., Cal. California-State Mining Bureau. no place, no date. sheet, 20 x 16, pap. scale about 1 400 ft. to 1 in.

220.36 **OKLAHOMA.** Topographic atlas sheets of Oklahoma. U. S.-Geological Survey. Wash., 1895. sheet, 17 x 15, pap. scale, 1 : 125 000. contour intervals, 20 ft.

402 **OMAHA, NEB.** Omaha and vicinity. U. S.-Geological Survey. no place, 1898 sheet, 27 x 18, pap. scale, 1 : 62 500. contour intervals, 20 ft.

216 **ONTARIO, CANADA.** Government map of part of the Huron and Ottawa Territory, Ont. Canada-Department of Crown Lands. N. Y., 1873. scale, 1 : 316 800.

388 ——Postal map of the Counties of Ontario, Victoria, Durham, Northumberland and Peterborough, Ontario, Canada. Montreal, 1879. sheet, 28 x 18, pap. no scale given.

Qf—(*Continued*).

142 **ONTONAGON HARBOR, MICH.** Preliminary chart. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1859. scale, 1 : 16 000.

29 **ORANGE COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. scale, 1 : 50 000.

449 **OREGON.** Indexed map, showing the railroads in the state. Rand, McNally & Co. Chic., 1879. sheet, 14 x 20, pap. no scale given.

342 ——Map of Oregon and Upper California, from the surveys of John Charles Frémont and other authorities; drawn by Charles Preuss. Balt., 1848. sheet, 36 x 30, pap. scale, 1 : 3 000 000.

390.37 ——Topographic atlas sheets of Oregon. U. S.-Geological Survey. Wash., 1889-96. 6 sheets, 17 x 15, pap. scales: 1 : 62 500; 1 : 125 000; 1 : 250 000. contour intervals, 25, 100 and 200 ft.

17 **OXFORD COUNTY, ME.** Map. H. F. Walling. N. Y., 1858. scale, 400 rods to 1 in.

179 **OYSTER BAY, L. I.** Oyster or Syosset Bay. U. S.-Coast Survey. no place, 1867. scale, 1 : 30 000.

213 **PACIFIC OCEAN.** North Pacific Ocean. U. S.-Hydrographic Office. Wash., 1869. 3 sheets. no scale given.

222 ——South Pacific Ocean; from the American Exploring Expedition, Admiralty and Depôt de la Marine. U. S.-Hydrographic Office. Wash., 1868. no scale given.

273 **PANAMA.** Carte de l'Isthme de Panama dressée d'après les documents de Garella. Totten, Wagner, les cartes hydrographiques Anglaises et Françaises et les derniers travaux de Wyse et Reclus, lieutenants de Vau., assistés de les Ingrs. Sosa, Lacharme, etc. Paris, 1879. scale, 1:200 000.

462 ——Map of the Isthmus of Panama representing the line of the railroad, reduced and comp. from the original survey by the Crown Surveyor, Jamaica. Panama R. R. Co. N. Y., 1857. sheet, 42 x 30, cl. scale, 8 000 ft. to 1 in.

450 ——Projecto de ferro-carril. George de Polignac. Note: From David, Costa Rica, to the City of Panama. Paris, no date. sheet, 22 x 9, pap. scale, 1:60 000.

471 **PANAMA CANAL.** Canal de Panama: Projet adopté par le Congrès International d'Étude pour le Percement de l'Isthme Americain. no place, 187–. sheet, 11 x 9, pap. scale about 12 kil. to 1 in.

27 ——Plan and geological profile. Otto Sibeth. no place, no date. sheet, 186 x 58, pap. no scale given.

136 ——Plan showing profile. no place, no date. sheet, 100 x 41, pap. no scale given.

181 **PASQUOTAUK RIVER, N. C.** U. S.-Coast Survey. no place, 1850. scale, 1:60 000.

356 **PELHAM BAY PARK.** Map showing topographical survey of land to be taken for Pelham Bay Park. Oct., 1885. W. J. Haskins. no place, no date. sheet, 31 x 45, pap. scale, 400 ft. to 1 in.

PENNSYLVANIA. Geological maps of Schuylkill, Carbon, Berks and Dauphin Counties: Topographical map of the Blue Mountain at Port Clinton. Pennsylvania-Geological Survey. 1891. various scales. (See Yh-128.)

300 ——Map of the first and second anthracite coal fields. S. B. Fisher. Phil., 1836. sheets, 16 x 11, cl. scale, 200 perches to 1 in.

209 ——Map of the Wyoming anthracite coal fields, Pa. R. P. Rothwell. Wilkes-Barre, Pa., 1869. scale about 1 000 ft. to 1 in.

24 ——New and reliable map of Pennsylvania, the "Keystone State"; showing counties, townships, railroads and distances, stations, post-offices, etc. N. Y., 1869. no scale given.

358 ——New topographical atlas; with descriptions, historical, scientific, and statistical; together with a map of the United States and Territories. H. F. Walling and O. W. Gray. Phil., 1872. various pagings, maps, 18 x 13, ½ mor. various scales.

——Report of the Secretary of Internal Affairs on the boundaries of the Commonwealth. 1887. (See Qe-92.)

——Second geological survey: Grand atlases. Contents: Div. 1, County geological maps. Div. 2, Anthracite coal fields. Div. 3, Petroleum and bituminous coal fields. Div. 4, South Mountain and Great Valley topographical maps. Div. 5, Central and South-eastern Pennsylvania. Note: Div. 1, Pt. 2; Div. 3, Pt. 2; Div. 4, Pt. 2; Div. 5, Pt. 2 wanting. (See Yh-122*a*.)

390.38 ——Topographical atlas sheets of Pennsylvania. U. S.-Geological Survey. Wash., 1891-99. 38 sheets, 17 x 15, pap. scale, 1 : 62 500. contour intervals, 20 ft.

305 ——Topographical map. H. F. Walling. N. Y., 1862. scale, 1 : 300 000.

18 **PENOBSCOT COUNTY, ME.** Topographical map. H. F. Walling. N. Y., 1859. scale about 1¼ miles to 1 in.

15 **PERRY COUNTY, OHIO.** Map. H. F. Walling. N. Y., 1859. scale, ½ mile to 1 in.

65 **PHILADELPHIA, PA.** Topographical map, showing water mains and street grades. Water Department. Phil., 1877. scale about ½ mile to 1 in.

461 **PHILADELPHIA & READING R. R.** Topographical plan and profile, with plates illustrating the bridges, stations, etc., on the line of the road. no place, 1856 (?) pl., 34 x 11, bds. various scales.

Qf—(*Continued*).

28 **PICTOU COUNTY, NOVA SCOTIA.** Topographical township map; from actual surveys. H. F. Walling. Halifax, no date. scale about 1 mile to 1 in.

19 **PISCATAQUIS COUNTY, ME.** Map. H. F. Walling. N. Y., 1858. scale, 1 mile to 1 in.

42 **PLYMOUTH COUNTY, MASS.** Map. H. F. Walling. Bost., 1857. scale, 240 rods to 1 in.

177 **PORTAGE LAKE, MICH.** Portage Lake and River with part of Keweenaw Bay. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1865. scale, 1 : 30 000.

248 **PORTUGAL.** Carta corographica de Portugal. F. Folque. Note: Incomplete. no place, 1862–75 (?) sheets, 28 x 40, pap. no scale given.

174 ——Geographical, hydrographical and topographical maps; issued by the Government. Lisbon, 1841–1871. various scales.

25 **POUGHKEEPSIE, N. Y.** Map. B. Nichols and H. B. Stranahan. N. Y., 1867. no scale given.

112 **PRESQU'ILE.** Harbors of refuge: Presqu' Ile, False Presqu' Ile, and Middle Island, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1858. scale, 1 : 40 000.

417 **PRINCE EDWARD ISLAND.** Topographical map, from actual surveys and the late coast survey by Capt. H. W. Bayfield. D. J. Lake. St. John, 1863. sheet, 53 x 76, pap. scale, 500 rods to 1 in.

122 **PRISONER'S HARBOR, CAL.** Reconnaissance of Prisoner's Harbor, Cal., and reconnaissance of Cuyler's Harbor, Island of San Miguel, Cal. U. S.-Coast Survey. no place, 1852. scale, 1: 20 000.

44 **PROVIDENCE, R. I.** Map. H. F. Walling. Providence, 1857. scale, 350 ft. to 1 in.

453 ——Map showing the rearrangement of the railroad stations and tracks in the City of Providence, proposed by the Commissioners of the Cove Lands. S. B. Cushing. no place, 1873. sheet, 25 x 21, pap. scale, 400 ft. to 1 in.

208 **PRUSSIA.** Post- und Eisenbahnkarte von dem preussischen Staate und den angränzenden Ländern. Prussia-General-Postamt. Note: 5 sheets wanting. Ber., 1865. 9 sheets. scale, 1: 800 000.

71 **QUEENS COUNTY, N. Y.** Topographical map of the Counties of Kings and Queens, N. Y. H. F. Walling. N. Y., 1859. scale, 1: 40 000.

468 **QUEENSLAND.** Map; showing annual rainfall to end of 1894. Water Supply Department. Brisbane, 1894. sheet, 27 x 20, pap. scale, 69.19 English statute miles to 1° and 60 geographical miles to 1°.

469 ——Map; showing mean annual rainfall to end of 1890. Water Supply Department. Brisbane, no date. sheet, 30 x 22, pap. scale, 69.16 English statute miles to 1° and 60 geographical miles to 1°.

149 **RAPPAHANNOCK COUNTY, VA.** Map; prepared by Jed Hotchkiss, Mar., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1 mile to 1 in.

455 **RHEINISCHE EISENBAHN.** Uebersichtskarte der rheinschen Eisenbahn und ihrer Nachbarbahnen. Köln, no date. sheet, 25 x 15, pap. scale, 1: 720 000.

496 **RHINE RIVER.** Karte über den Lauf des Rheins längs der badisch-französischen Grenze nach dem Stande der Jahre 1838 und 1861 und längs der badisch- bayerischen Grenze nach dem Stande der Jahre 1817 und 1861. Baden-Oberdirektion des Wasser- und Strassen-baues. no place, 1862 (?) sheets, 11 x 8, bds. scale, 1: 50 000.

RHODE ISLAND. Geographic dictionary. Henry Gannett. 1894. (See Yh-87, No. 115.)

46 ——Map of the State of Rhode Island and Providence Plantations. H. F. Walling. N. Y., 1863. no scale given.

380.39 ——Topographic atlas sheets of Rhode Island. U. S.-Geological Survey. Wash., 1889–99. 8 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 20 ft.

187 **RICHMOND'S ISLAND HARBOR, ME.** U. S.-Coast Survey. no place, 1851 scale, 1: 20 000.

84 **RIVERSIDE, ILL.** General plan. Olmsted, Vaux & Co. Chic., 1869. scale, 400 ft. to 1 in.

147 **ROCKINGHAM COUNTY, VA.** Map; prepared by Jed Hotchkiss, Jan., 1866. U. S.-Bureau of Topographical Engineers. no place, 1875. scale, 1½ miles to 1 in.

43 **ROUVILLE COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1½ miles to 1 in.

237 **RUSSIA.** Map. St. Petersburg, 1876. 6 sheets. scale in Russian.

456 ——Spoorwegkaart van Rusland naar de nieuwste bronnen vervaardigd. J. Pik. Groningen, no date. 2 sheets, 32 x 27, pap. scale, 1 : 2 500 000.

234 ——Topographical map. no place, no date. scale in Russian.

Qf—(*Continued*).

163 **SAGINAW BAY AND PART OF LAKE HURON.** U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1860. scale, 1 : 120 000.

161 **SAGINAW RIVER.** Preliminary chart; lower reach of Saginaw River and bar in front, Saginaw Bay, Lake Huron. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1856. scale, 1 : 10 000.

158 **ST. CLAIR, LAKE.** Chart. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1874 (?) scale, 1 : 50 000.

105 ——Chart of St. Clair Flats, showing also the improvement of the mouth of the South Pass now being effected by the United States. U. S.-Bureau of Topographical Engineers. no place, 1857 (?) scale, 1 : 32 000.

98 **ST. CLAIR RIVER.** Chart. U. S.-Corps of Engineers. no place, 1872 (?) scale, 1 : 40 000.

78 **ST. FRANCIS, CANADA.** Map; from surveys of British and American Boundary Commissioners, British American Land Co., Crown Land Department and special surveys and observations. O. W. Gray. no place, 1863. scale about 1 mile to 1 in.

299 **ST. LAWRENCE RIVER.** Chart of the Gulf and River St. Lawrence, including the coast from Breton Island to Cape Cod and the Island and Banks of Newfoundland. J. Imray & Son, pub. Lond., 1854. no scale given.

114 ——Charts; Nos. 1-3. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1875. scale, 1:30 000.

210 ——The River and Gulf of St. Lawrence, Newfoundland, Nova Scotia and the banks adjacent; from the English Admiralty and French Marine Surveys. U. S.-Hydrographic Office. Wash., 1868. 2 sheets. no scale given.

344 **ST. LOUIS, MO.** Map. St. Louis, no date. sheet, 14 x 8, pap. no scale given.

400 ——St. Louis and vicinity. U. S.-Geological Survey. no place, 1893. sheet, 18 x 28, pap. scale, 1:62 500. contour intervals, 20 ft.

119 **ST. MARKS RIVER, FLA.** Reconnaissance of the bar and channel of St. Marks, on the western coast of Florida. U. S.-Coast Survey. no place, 1853. scale, 1:40 000.

457 **ST. PETERSBURG & MOSCOW R. R.** Map and profile of the railroad. no place, no date. sheet, 26 x 39, cl. scale in Russian.

318 **ST. THOMAS ISLAND.** Carta da Ilha de St. Thomé. Portugal-Commissão de Cartographia. no place, 1891. scale, 1 : 150 000.

102 **STE. MARIE RIVER.** Charts. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1857-58(?) scale, 1 : 40 000.

151 ——Sketch of the navigation through East Neebish Rapids, River St. Mary. U. S.-Bureau of Topographical Engineers. Wash., 1854. scale, 1 : 15 000.

184 **SAN DIEGO BAY, CAL.** San Diego entrance and approaches, Cal. U. S.-Coast Survey. no place, 1851. scale, 1 : 25 000.

203 **SAN FRANCISCO, CAL.** City of San Francisco and its vicinity. U. S.-Coast Survey. no place, 1852. scale, 1 : 10 000.

178 ——Map; showing the water service of Spring Valley Water-Works, distributing reservoirs, districts supplied by each, and location of principal distributing mains, contour lines showing elevation above tide water and Fire Department and Fire Patrol buildings; with plates and drawings illustrating the Spring Valley Water-Works. Dakin Publishing Co. San Fran., 1895. no scale given.

500 **SAN JUAN MINING REGION.** Map. Moritz Stockder. N. Y., 1881. sheet, 40 x 30, pap. scale about 1 mile to 1 in.

331 ——Map. N. Y., no date. sheet, 19 x 12, pap. scale, 4 miles to 1 in.

121 **SAN PEDRO HARBOR, CAL.** Reconnaissance of San Pedro Harbor. U. S.-Coast Survey. no place, 1852. scale, 1 : 30 000.

101 **SANDUSKY BAY.** Chart. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place. 1874(?) scale, 1 : 20 000.

192 **SANDY HOOK, N. J.** Showing the progressive changes in Sandy Hook from 1779 to 1851. U. S.-Coast Survey. no place, 1851. scale, 1:40 000.

241 **SANTA BARBARA, CAL.** Preliminary sketch. U. S.-Coast Survey. no place, 1853. scale, 1:20 000.

166 **SANTA CRUZ HARBOR.** Reconnaissance of the Harbors of Santa Cruz, San Simeon, Coxo and San Luis Obispo, Cal. U. S.-Coast Survey. no place, 1852. scale, 1:40 000.

198 **SAVANNAH RIVER.** Reconnaissance of the entrance of Savannah River, Ga. U. S.-Coast Survey. no place, no date. scale, 1:30 000.

194 ——Reconnaissances of the approaches to the City of Savannah, including Front and Back Rivers. U. S.-Coast Survey. no place, 1851. scale, 1:20 000.

Qf—(*Continued*).

288 **SEINE, DÉPARTEMENT DE LA.** Carte des exploitations minérales du Département de la Seine, avec les divisions géologiques des terrains. Gentil. Paris, 1879. 4 sheets. no scale given.

287 ——Carte géologique cotée du Département de la Seine représentant le gypse, le calcaire grossier et la craie. Delesse. Paris, 1880. 4 sheets. scale, 1:25 000.

285 ——Carte hydrologique du Département de la Seine. Delesse. no place, 1882. 4 sheets. scale, 1:25 000.

188 **SHEFFIELD ISLAND HARBOR, CONN.** Harbors of Sheffield Island and Cawkin's Island. U. S.-Coast Survey. no place, 1848. scale, 1:20 000.

43 **SHEFFORD COUNTY, CANADA.** Map of the Counties of Shefford, Iberville, Brome, Missisquoi, and Rouville, Canada East. O. W. Gray. no place, 1864. scale about 1⅛ miles to 1 in.

188 **SHIP ISLAND HARBOR, MISS.** Cat and Ship Island Harbors. U. S.-Coast Survey. no place, 1850. scale, 1:40 000.

243 **SHOALWATER BAY, WASH.** Preliminary chart. U. S.-Coast Survey. no place, 1853. scale, 1:80 000.

345 **SOUDAN.** Special large scale war map of the Soudan, extending to Suakim on the Red Sea, with enlarged plan of Khartum. George Phillip & Son, pub. Lond., 1885. sheet, 31 x 22, pap. no scale given.

7 **SOUTH AMERICA.** Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.

410 ——Map of the railways of South America and of the international trunk lines; comp. and drawn up under the patronage of the Ministry of Public Works of the Oriental Republic of Uruguay. J. J. Castro and Felix Elena. no place, 1898. sheet, 39 x 56, pap. scale, 1:4 000 000.

200.40 **SOUTH CAROLINA.** Topographic atlas sheets of South Carolina. U. S.-Geological Survey. Wash., 1885–92. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 and 100 ft.

200.41 **SOUTH DAKOTA.** Topographic atlas sheets of South Dakota. U. S.-Geological Survey. Wash., 1893–99. 17 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20, 50 and 100 ft.

314 **SOUTHWESTERN HIGHLANDS, N. J.** Topographical map of the Southwestern Highlands, with the southwest portion of Kittatinny Valley; from original surveys and levelings based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N.Y., 1885. scale, 1 mile to 1 in.

1 **SPAIN.** Mapa topográfico de España en escala de 1:50 000. Madrid, 1875. sheets, 27 x 34, bds.

294 **STATEN ISLAND, N. Y.** Atlas. J. B. Beers & Co. N. Y., 1887. sheets, 17 x 14, ¾ mor. various scales.

304 ——Map. H. F. Walling. N. Y., 1859. scale, 80 rods to 1 in.

88 **SULLIVAN COUNTY, N. H.** Topographical map. H. F. Walling. N. Y., 1860. scale, 1:40 000.

113 **SUPERIOR, LAKE.** Chart No. 1. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1872. scale, 1:400 000.

95 ——Chart of Isle Royale, including northwest coast of Lake Superior. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) no place, 1871 (?) scale, 1:120 000.

215 ——Plan of the part of the north shore of Lake Superior, showing Thunder and Black Bays, etc. Canada-Department of Crown Lands. Toronto, 1873. scale, 1 mile to 1 in.

120 ——Preliminary chart of part of Lake Superior; comprising the data obtained up to the close of field operations in 1867. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) Note: Map of the eastern part of Lake Superior. no place, 1868. scale, 1:400 000.

120 ——Preliminary chart of part of Lake Superior; comprising the data obtained up to the close of field operations in 1867. U. S.-Corps of Engineers. (Survey of the Northern and North Western Lakes.) Note: Map of the western part of Lake Superior. no place, 1868. scale, 1:400 000.

98 ——Preliminary chart of part of Lake Superior, comprising the data obtained up to the close of field operations in 1869. U. S.-Corps of Engineers. no place, 1870. scale, 1:400 000.

104 ——Preliminary chart of the west end of Fond du Lac of Lake Superior, embracing Superior, St. Louis and Allouez Bays and the St. Louis River to the head of navigation. U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1868. scale, 1:32 000.

313 **SUSSEX COUNTY, N. J.** Topographical map of Kittatinny Valley and Mountain in Sussex Co. and the northern part of Warren; from original surveys and levelings, based on the triangulation of the United States Coast and Geodetic Survey. New Jersey-Geological Survey. N. Y., 1886. scale, 1 mile to 1 in.

Qf—(*Continued*).

458 **SWEDEN.** Railway map. C. P. Sandberg. Stockholm, 1886. sheet, 23 x 16, pap. scale about 21 miles to 1 in.

204 **SYRACUSE, N. Y.** City of Syracuse and Village of Geddes. H. W. Clarke. Syracuse, no date. scale, 1 200 ft. to 1 in.

118 **TARPAULIN COVE HARBOR, MASS.** The Harbor of Holmes' Hole and the Harbor of Tarpaulin Cove. U. S.-Coast Survey. no place, 1847. scale, 1: 20 000.

41 **TAUNTON, MASS.** Map; made by order of the City Government, under the direction of the Committee of the City Council. H. F. Walling and O. W. Gray. Bost., 1871. scale, 1 000 ft. to 1 in.

154 **TAWAS HARBOR, MICH.** Preliminary chart of Tawas Harbor, harbor of refuge, Lake Huron. U. S.-Bureau of Topographical Engineers. no place, 1856. scale, 1: 16 000.

277 **TEHUANTEPEC ISTHMUS.** Map; embracing all the surveys of the engineering and hydrographic parties and showing the proposed route of the Tehuantepec Ship Canal, its feeder and harbors. U. S.-Tehauntepec Expedition. no place, 1871. 19 sheets. scale, 1: 250 000.

253 ——Map showing the surveys and profiles made for a railway across the Isthmus of Tehuantepec. Tehuantepec Ry. Co. N. Y., 1869. scale, 16 000 ft. to 1 in.

463 ——Maps illustrating the Isthmus of Tehuantepec. N. Y., 1852. 8 sheets, 41 x 26, cl. various scales.

389.42 **TENNESSEE.** Geologic atlas of the United States: Tennessee folios. U. S.-Geological Survey. Wash., 1894-98. 11 v., 22 x 18, pap. scale, 1: 125 000.

390.42 ——Topographic atlas sheets of Tennessee. U. S.-Geological survey. Wash., 1892-98. 22 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 100 ft.

389.43 **TEXAS.** Geologic atlas of the United States: Texas folios. U. S.-Geological Survey. Wash., 1894-98. 1 v., 22 x 18, pap. scale, 1: 125 000.

267 ——Map of the States of Kansas and Texas and Indian Territory; with parts of the Territories of Colorado and New Mexico. U. S.-Corps of Engineers. ed. 2. no place, 1874. scale, 1: 500 000.

480 ——Maps of the country between the frontiers of Arkansas and New Mexico, embracing the section explored in 1849, '50, '51, '52. R. B. Marcy. N. Y., no date. 2 sheets, 18 x 36, 29 x 60, cl. scale about 20 miles to 1 in.

390.43 ——Topographic atlas sheets of Texas. U. S.-Geological Survey. Wash., 1887-97. 52 sheets, 17 x 15, pap. scale, 1: 125 000. contour intervals, 25 and 50 ft.

153 **THUNDER BAY, LAKE HURON.** U. S.-Bureau of Topographical Engineers. (Survey of the Northern and North Western Lakes.) no place, 1858. scale, 1: 40 000.

316 **TIMOR ISLAND.** Carta da Ilha de Timor. Portugal-Commissão de Cartographia. no place, 1890. scale, 1: 750 000.

403 **TINTIC MINING MAP, UTAH.** U. S.-Geological Survey. no place, 1898. sheet, 30 x 18, pap. scale, 1: 96 000. contour intervals, 20 ft.

234 **TOURS, FRANCE.** Plan général de la Ville de Tours, et de ses environs. Tours, no date. no scale given.

36 **ULSTER COUNTY, N. Y.** Map. ed. 2, rev. O. J. Tillson and P. H. Brink. Kingston, 1854. scale about 1 mile to 1 in.

398 **UNITED STATES.** Base, contour and relief maps. U. S.-Geological Survey. no place, 189-, and 1899. 8 sheets, 17 x 28, pap. scale, 111 miles to 1 in.

——Citizen's atlas of American politics, 1789-1888: A series of colored maps and charts. F. W. Hewes. 1888. (See Qc-46.)

——Dictionary of geographic positions in the United States. Henry Gannett, comp. 1895. (See Yh-87, No. 123.)

369 ——Enlarged map of the coast from New York Harbor to Boston. no place, no date. sheet, 10 x 24, pap. scale about 12 miles to 1 in.

208 ——General chart of the coast from Gay Head to Cape Henlopen. U. S.-Coast Survey. no place, 1852. scale, 1: 400 000.

389 ——Geologic atlas: Folios 1-48. U. S.-Geological Survey. Library Edition. Wash., 1894-98. 48 v., maps, 22 x 18, pap. scales, 1: 15 000 to 1: 250 000.

464 ——Great western railway guide; exhibiting all stations with distances from each other. D. B. Cooke & Co. Chic., 1855. sheet, 26 x 39, cl. no scale given.

249 ——Map of the Lake Shore & Michigan Southern Ry., and its connections: comp. from the latest sources and showing the true location of each road. Buffalo, 1873. no scale given.

134 ——Map of the territory of the United States from the Mississippi River to the Pacific Ocean; originally prepared to accompany the reports of the explorations for a Pacific railroad route. U. S.-Bureau of Topographical Engineers. N. Y., 1867 (?) scale, 1: 3 000 000.

312 ——Map of the territory of the United States from the Mississippi to the Pacific Ocean; to accompany the reports of the explorations for a railroad route; comp. from authorized explorations and other reliable data, by G. K. Warren. U. S.-War Department. no place, 1857. scale, 1: 3 000 000.

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35 ——Map of the United States, Mexico, Central America, California, Oregon, New Mexico, W. Indies, etc., with the boundaries of the several states, railroads, canals, etc. H. S. Tanner. N. Y., no date. no scale given.

339 ——Map of the United States, southern part, from the latest surveys. A. Lindenkohl. N. Y., 1866. sheet, 28 x 22, pap.

244 ——Map showing the location of works and surveys for river and harbor improvement; comp. for the index to the reports of the Chief of Engineers, under the direction of Henry M. Robert. U. S.-Corps of Engineers. Wash., 1879. sheets, 32 x 24, pap. various scales.

214 ——Maps illustrating the battle fields of the War of the Rebellion. U. S.-Corps of Engineers. Wash., 1887(?) 77 sheets. various scales.

——Maps of the New England and Middle States. G. W. Colton. Note: To accompany "History of the Railroads and Canals of the United States," v. 1, by H. V. Poor. 1860. (See Aj-28.)

360 ——Maps showing the location of the Diplomatic and Consular offices of the United States of America, Mar. 1st, 1888. U. S.-Department of State. Wash., 1888. sheets, 23 x 19, pap.

8 ——National map of the territory of the United States from the Mississippi River to the Pacific Ocean; made by the authority of the Secretary of the Interior at the office of the Indian Bureau, chiefly for Government purposes; comp. from authorized explorations of Pacific railroad routes, public surveys, and other reliable data from the departments of the Government at Washington, D. C. W. J. Keeler. Wash., 1867. scale, 36 miles to 1 in.

465 ——New and complete map of all the railroads in the United States and Canada in operation and progress. H. V. Poor. N. Y., 1857. sheet, 35 x 42, cl. scale, 33⅓ miles to 1 in.

13 ——New county and railroad map of the United States and of the Dominion of Canada. Gaylord Watson. N. Y., 1873. scale about 35 miles to 1 in.

20 ——New railroad and distance map of the United States and Canada. Gaylord Watson. N. Y., 1868. scale about 36 miles to 1 in.

355 ——New topographical atlas of the State of Maryland and the District of Columbia, with descriptions historical, scientific, and statistical; together with maps of the United States and Territories. S. J. Martenet. H. F. Walling and O. W. Gray. Balt., 1873. various pagings, maps, 18 x 13, ½ mor.

60 ——New topographical map of the whole Dominion of Canada, with a large section of the United States; comp. from the latest and most authentic sources, with additions and corrections to date of publication. John Johnston. Montreal, 1874. scale, 27½ miles to 1 in.

443 ——Railroad map of the New York Central lines, embracing in their through car lines, the New York Central & Hudson River, Michigan Central, Lake Shore & Michigan Southern, C., C., C., & St. L. (Big Four), Boston & Albany, Pittsburg & Lake Erie. (Four-Track Ser., No. 21.) no place, 1899. sheet, 45 x 19, pap. no scale given.

268 ——Reconnaissance and survey of a railway route from Mississippi River, near 35th parallel, north lat., to Pacific Ocean, 1853-54 U. S.-War Department. N. Y., 1854(?) scale, 1 : 900 000.

245 ——Reconnaissance of the western coast of the United States from Gray's Harbor to the entrance of Admiralty Inlet. U. S.-Coast Survey. no place, 1858. scale, 1 : 600 000.

198 ——Reconnaissance of the western coast of the United States from Monterey to the Columbia River; Sheets Nos. 1-3. ed. 3. U. S.-Coast Survey. no place, 1851. 3 sheets. no scale given.

——Statistical atlas, based upon results of the Eleventh Census; by Henry Gannett. U. S.-11th Census, 1890. 1898. (See Qc-11.18.)

——Statistical atlas; comp. by Francis A. Walker. U. S.-9th Census, 1870. 1874. (See Qc-9.8.)

164 ——Territory of the United States from the Mississippi River to the Pacific Ocean; originally prepared to accompany the reports of the explorations for a Pacific railroad route, 1865-68. U. S.-Corps of Engineers. no place, 1873(?) 4 sheets. scale, 1 : 3 000 000.

390 ——Topographic atlas sheets of the United States. U. S.-Geological Survey. Wash., 1885-99. 1077 sheets, 17 x 15, pap. scales: 1 : 62 500 to 1 : 250 000. contour intervals, 5 to 250 ft.

391 ——United States (Map of); comp. under the direction of Henry Gannett, Chief Topographer, by Harry King, Chief Draughtsman. U. S.-Geological Survey. N. Y., 1890. sheet, 49 x 76, pap. scale, 1 : 2 500 000.

392 ——Same. no place, 1898. sheet, 49 x 76, pap. scale, 1 : 2 500 000.

408 **UTAH.** Tintic mining map. U. S. Geological Survey. no place, 1898. sheet, 30 x 18, pap. scale, 1 : 96 000. contour intervals, 20 ft.

390.44 ——Topographic atlas sheets of Utah. U. S.-Geological Survey. Wash., 1898. 18 sheets, 17 x 15, pap. scale, 1: 250 000. contour intervals, 50 and 250 ft.

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405 ——Topographical and geological atlas of the district of the high plateaus of Utah. U. S.-Geographical and Geological Surveys of the Rocky Mountain Region. N. Y., 1879. sheets, 33 x 23, pap. various scales.

390.45 **VERMONT.** Topographic atlas sheets of Vermont. U. S.-Geological Survey. Wash., 1891-99. 9 sheets, 17 x 15, pap. scale. 1:62 500. contour intervals, 20 ft.

254 **VICTORIA, AUSTRALIA.** Australia-Department of Lands and Surveys. no place. 1875. scale about 12 miles to 1 in.

340 ——Map. Melbourne, 1875. sheet, 36 x 25, pap. scale about 16 miles to 1 in.

49 **VIENNA, AUSTRIA.** Situationsplan von Wien, mit der Darstellung der ausgeführten Donauregulirung und der projektirten neuen Stadtanlage am neuen Stromlaufe auf den gewonnenen Baugründen. Austria-Donau-Regulirungs-Commission. Note: For explanatory text see Cb-422. Wien, 1872 (?) scale, 1:10 000.

32 **VIGO COUNTY, IND.** Map. H. F. Walling. N. Y., 1858. scale, ½ mile to 1 in.

389.46 **VIRGINIA.** Geologic atlas of the United States: Virginia folios. U. S.-Geological Survey. Wash., 1894-98. 7 v., 22 x 18, pap.

347 ——Map of battle-grounds of Aug. 28th, 29th, and 30th, 1862, in the vicinity of Groveton, Prince William Co., Va.; made by the authority of the Secretary of War; surveyed in June, 1878. U. S.-Corps of Engineers. no place, 1878. sheet, 30 x 25, pap. scale, ½ mile to 1 in.

327 ——South-west Virginia and contiguous territory, mineral resources and railway facilities. C. R. Boyd. Wytheville, 1886. sheet, 50 x 29, cl. scale about 6 miles to 1 in.

390.46 ——Topographic atlas sheets of Virginia. U. S.-Geological Survey. Wash., 1889-97. 40 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 5, 50 and 100 ft.

408 ——Western section of map of Southwest Virginia and contiguous territory, mineral resources and railway facilities. C. R. Boyd. Wytheville, 1894. sheet, 30 x 22, pap. no scale given.

401 **WASHINGTON CITY, D. C.** Washington and vicinity. U. S.-Geological Survey. no place, 1895. sheet, 18 x 27, pap. scale, 1:62 500. contour intervals, 20 ft.

58 **WASHINGTON COUNTY, VT.** Map. H. F. Walling. N. Y., 1858. scale. 1:50 000.

366 **WASHINGTON STATE.** Map of the country adjacent to Puget Sound, embracing British Columbia and the counties of Western Washington. Baker, Balch & Co. Seattle, no date. sheet, 28 x 16, pap.

390.47 ——Topographical atlas sheets of Washington. U. S.-Geological Survey. Wash., 1894-98. 4 sheets, 17 x 15 pap. scales, 1:62 500; 1:125 000. contour intervals, 25, 50 and 100 ft.

459 **WELLAND RY.** Map showing the extent of the connections formed by the railway uniting Lakes Erie and Ontario. Toronto, no date. sheet, 30 x 23, pap. no scale given.

240 **WELLFLEET HARBOR, MASS.** U. S.-Coast Survey. no place, 1858. scale, 1:50 000.

211 **WEST INDIES.** Gulf of Mexico, West Indies, and Caribbean Sea; from the most recent United States Coast Survey, Spanish and British Admiralty charts. U. S.-Hydrographic Office. Wash., 1869. 6 sheets. no scale given.

7 ——Karte des Nördlichen tropischen America: A new map of tropical America north of the Equator, comprising the West Indies, Central America, Mexico, New Granada and Venezuela. H. Kiepert. Ber., 1858. variable scale about 61 miles to 1 in.

389.48 **WEST VIRGINIA.** Geologic atlas of the United States: West Virginia folios. U. S.-Geological Survey. Wash., 1894-98. 2 v., 22 x 18, pap.

390.48 ——Topographic atlas sheets of West Virginia. U. S.-Geological Survey. Wash., 1896-98. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.

91 **WESTCHESTER COUNTY, N. Y.** Topographical map made from surveys by the Commissioners of the Department of Public Parks of the City of New York, of that part of Westchester Co. adjacent to the City and County of New York. N. Y., 1874. scale, 1 000 ft. to 1 in.

78 **WINNEBAGO COUNTY, ILL.** Topographical map. T. J. L. Remington. N. Y., 1859. scale, 200 rods to 1 in.

354 **WISCONSIN.** Atlas, including statistics and descriptions of its history, educational institutions, geology, railroads, natural resources, and manufacturing interests. H. F. Walling, ed. and comp. Bost., 1876. 130 pp., maps, 18 x 14, ½ mor.

460 ——Railroad map. A. D. Conover. no place, 1886. sheet, 36 x 29, pap. scale, 12 miles to 1 in.

390.49 ——Topographic atlas sheets of Wisconsin. U. S.-Geological Survey. Wash., 1891-96. 27 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 20 ft.

WORCESTER, MASS. Map; showing the highway grade crossings. Commission on Abolition of Grade Crossings. 1892. (See Ac-141, v. 2.)

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280 **WORCESTER COUNTY, MASS.** Atlas. F. W. Beers and others. N. Y., 1870. 99 pp., il., maps, 15 x 18, ½ sh. various scales.

16 ——Map; based upon the trigonometrical survey of the state, the details from actual surveys. H. F. Walling. Bost., 1857. scale, 1 mile to 1 in.

372 **WORLD.** An accompaniment to Mitchell's Map of the World, on Mercator's projection; containing an index to the various countries, cities, towns, islands, etc., represented on the map. Phil., 1841. 572 pp., 9 x 5, ½ sh. no scale given.

250 ——Chart of the world on Mercator's projection, showing the lines of the Tehuantepec Ry., with its connections by steamships and sailing vessels with the prominent ports of the world. N. Y., 1868. no scale given.

282 ——Cram's standard American atlas of the world. G. F. Cram. Chic., 1888. 354 pp., maps, 17 x 12, ¾ mor. various scales.

375 ——Handatlas über alle Theile der Erde und über das Weltgebäude. Adolf Stieler. Gotha, 1868. 84 sheets, 14 x 9, ¾ mor. various scales.

421 ——Indexed atlas, containing large scale maps of every country and civil division upon the face of the globe, together with historical, descriptive, and statistical matter relative to each. Rand, McNally & Co. Chic., 1892. 581 pp., pl., maps, 23 x 15, mor. various scales.

2 ——Neuer Handatlas über alle Theile der Erde. Heinrich Kiepert. Ber., 1857. sheets, 25 x 19, pap. various scales.

295 ——New general atlas exhibiting the five great divisions of the globe, Europe, Asia, Africa, America, and Oceanica, with their several empires, kingdoms, states, territories and other subdivisions. Malte-Brun. Phil., 1828. 40 sheets, 13 x 10, ¾ ro. various scales.

293 ——New universal atlas containing maps of the various empires, kingdoms and republics of the world. Phil., 1851. 78 sheets, 16 x 13, ¾ ro. various scales.

157 ——Planisphero terrestre indicando as novas descobertas as colonias Europeas e as linhas maritimas das navios de vapor que fazem escalla nos principaes portos de commercio. A. Vuillemin. Paris, no date. no scale given.

367 ——School atlas to accompany Woodbridge's Rudiments of Geography: Atlas on a new plan, exhibiting the prevailing religions, forms of government, degrees of civilization and the comparative size of towns, rivers and mountains. W. C. Woodbridge. ed. 5. Hartford, 1828. sheets, 9 x 6, pap. various scales.

369.50 **WYOMING.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. Wash., 1894–98. 1 v., 22 x 18, pap. scale, 1: 125 000.

380 ——Map. N. Y., no date. sheet, 22 x 17, pap.

390.50 ——Topographic atlas sheets of Wyoming. U. S.-Geological Survey. Wash., 1896–99. 13 sheets, 17 x 15, pap. scales: 1: 62 500; 1: 125 000. contour intervals, 50 and 100 ft.

394 ——Yellowstone Park and Northwestern Wyoming; surveyed in 1883–4–5. U. S.-Geological Survey. N. Y., no date. sheet, 35 x 25, pap. scale, 1: 125 000. contour intervals, 100 ft.

396 **YELLOWSTONE LAKE.** Sketch of the Yellowstone Lake and the valley of the Upper Yellowstone River. U. S.-Corps of Engineers. no place, 1871 (?) scale, 1: 500 000.

369.50 **YELLOWSTONE NATIONAL PARK.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. 1894–98. scale, 1: 125 000.

394 ——Yellowstone Park and Northwestern Wyoming; surveyed in 1883–4–5. U. S.-Geological Survey. N. Y., no date. sheet, 35 x 25, pap. scale, 1: 125 000. contour intervals, 100 ft.

127 **YMUIDEN HARBOR, NETHERLANDS.** Map showing Amsterdam's new harbour Ymuiden in connexion with other harbours. no place, no date. scale, 1: 1 500 000.

504 **YUKON RIVER.** Map, from Fort Yukon to the sea; reconnoissance made July to Sept., 1869. C. W. Raymond and E. von Diezelski. Wash., 1871. sheet, 29 x 43, pap. scale about 16 miles to 1 in.

467 **ZAMBESI RIVER.** Esboço do curso do Zambeze de tete ao oceano. ed. 2. Portugal —Ministerio Marinha e Ultramar. no place, 1892. sheet, 101 x 12, pap. scale, 1: 200 000.

SURVEYING AND DRAWING.

R

66 **ANEROID BAROMETER, THE**; its construction and use. (Van Nostrand's Science Ser.) N. Y., 1878. 106 pp., il., pl., 6 x 4, bds.

APPLETONS' CYCLOPÆDIA OF DRAWING, DESIGNED AS A TEXT-BOOK for the mechanic, architect, engineer and surveyor; comprising geometrical projection, mechanical, architectural and topographical drawing, perspective and isometry; ed. by. W. E. Worthen. 1857. (See U-36.)

77 **BAKER, I. O.** Engineers' surveying instruments, their construction, adjustment and use. ed. 2, rev. and enl. N. Y., 1897. 9 + 391 pp., il., pl., 8 x 5, cl.

36 **BALLARD, ROBERT.** Solution of the Pyramid problem; or, Pyramid discoveries; with a new theory as to their ancient use. Note: A theory that the Pyramids were constructed for surveying purposes. N. Y., 1882. 109 pp., il., pl., 9 x 6, cl.

BALTIMORE—TOPOGRAPHICAL SURVEY. Report to the Mayor and City Council of Baltimore; 1894. 1895. (See Qe-90.)

BEECHEY, F. W. Hydrography. 1871. (See Qe-76a, p. 13.)

47 **BELCHER, EDWARD.** Treatise on nautical surveying; containing an outline of the duties of the naval surveyor; with cases applied to naval evolutions, and miscellaneous rules and tables useful to the seaman or traveller. Lond., 1835. 290 pp., il., pl., maps, 10 x 6, cl.

44 **BOLTON, HANNAH.** Drawing from objects; being an abstract of lessons on linear drawing given at the home and colonial training schools, chiefly designed for teachers. Lond., 1850. 8 + 130 pp., il., pl., 9 x 6, cl.

7 **BOSTON—SCHOOL COMMITTEE.** Report of the Committee on drawing. Bost., 1874. 200 pp., pl., 9 x 6, pap.

50 **BRAINARD, F. R.** The sextant and other reflecting mathematical instruments, with practical hints, suggestions and wrinkles on their errors, adjustments and use. N. Y., 1891. 120 pp., il., 6 x 4, bds.

15 **BURT, W. A.** Key to the solar compass and surveyor's companion; comprising all the rules necessary for use in the field; also, description of the linear surveys, and public land system of the United States; notes on the barometer, suggestions for an outfit for a survey of four months, etc. Phil., 1855. 118 pp., pl., 6 x 4, mor.

9 **CANADA—DEPARTMENT OF PUBLIC WORKS.** Memorandum on the self-reducing Sanguet tacheometer as adapted to precision levelling in connection with a new rod; by R. Steckel. Ottawa, 1899. 2 v., pl., 10 x 6, pap.

CARPENTER, F. D. Geographical surveying; its uses, methods and results; by the Geographer to the Geological Commission of Brazil. (Van Nostrand's Science Ser.) 1878. (See Qe-82.)

6 **CEREBOTANI, LUIGI.** Distances, topographies and curved lines in any way and direction; new method, new instruments. Ber., no date. 74 pp., il., 9 x 6, pap.

13 **CLEVENGER, S. V.** Treatise on the method of government surveying as prescribed by the United States Congress and Commissioner of the General Land Office; with complete mathematical, astronomical and practical instructions. ed. 2, rev. N. Y., 1877. 200 pp., il., pl., 7 x 4, skiv.

COLVIN, VERPLANCK. Surveying instruments used on the topographical survey of the Adirondack region. 1880. (See Qe-56, Annual report, 1878, p. 71.)

64 **CORDEIRO, F. J. B.** Barometrical determination of heights: A practical method of barometrical levelling and hypsometry for surveyors and mountain climbers. N. Y., 1898. 28 pp., 7 x 5, mor.

19 **DAVIES, CHARLES.** Elements of surveying and levelling; with descriptions of the instruments and the necessary tables. N. Y., 1872. 270 + 161 pp., il., pl., 8 x 5, sh.

20 ——Treatise on shades and shadows and linear perspective. N. Y., 1832. 157 pp., 20 pl., 10 x 6, ½ cf.

DAY, JEREMIAH. Mathematical principles of navigation and surveying, with the mensuration of heights and distances; being the fourth part of mathematics. ed. 3. New Haven, 1831. 8 + 119 pp., 3 pl., 9 x 6, b. p. Ad-225, p. 337.

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16 **EASTMAN, S.** Treatise on topographical drawing. N. Y., 1837. 68 pp., 12 pl., 9 x 5, cl.

EATON, AMOS. Prodromus of a practical treatise on the mathematical arts; containing directions for surveying and engineering. 1838. (See Yh9-18.)

45 **ECKSTEIN, CHARLES.** New method for reproducing maps and drawings. (International Exhibition at Philadelphia, 1876.) The Hague, no date. 12 pp., 7 pl., 12 x 10, pap.

FARQUHAR, F. U. Manner of carrying on the United States survey of the Great Lakes. no date. (See Qe-104.)

38 **FISH, J. C. L.** Lettering of working drawings. N. Y., 1894. unpaged, 13 pl., 9 x 12, bds.

FRANGENHEIM, J. M. Ausführung perspektivischer Zeichnungen. 1885. (See V 27, Pt. 1, v. 1, p. 375.)

2 **FREE-HAND DRAWING:** A guide to ornamental, figure and landscape drawing; by an art student. ed. 3. N. Y., 1878. 85 pp., il., pl., 6 x 4, bds.

GANNETT, HENRY. Manual of topographic methods. (U. S. Geological Survey.) 1893. (See Yh-41, v. 22.)

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27 **GIBSON, ROBERT.** Treatise of practical surveying, which is demonstrated from its first principles; with alterations and amendments, adapted to the use of American surveyors. ed. 3. Phil., 1803. 8 + 288 + 152 pp., pl., 9 x 5, sh.

56 **GIESELER, E. A.** Aneroid barometer, its various forms, its theory and its use; with special reference to the determination of altitudes. N. Y., 1889. 11 pp., il., 9 x 6, pap.

52 **GILLESPIE, W. M.** Problem in practical surveying, demonstrated by means of transversals. no place, no date. 3 pp., il., 9 x 6, pap.

26 ——Treatise on land-surveying; comprising the theory and the practice. ed. 3. N. Y., 1866. 424 + 84 pp., il., map, 9 x 6, ½ skiv.

23 **GRIBBLE, T. G.** Preliminary survey and estimates. Lond., 1891. 19 + 420 pp., il., 8 pl., 7 x 4, cl.

18 **GUMMERE, JOHN.** Treatise on surveying, containing the theory and practice; to which is prefixed a perspicuous system of plane trigonometry, the whole clearly demonstrated and illustrated by a large number of appropriate examples, particularly adapted to the use of schools; enlarged by the addition of articles on the theodolite, levelling and topography. ed. 14, rev. Phil., 1839. 266 + 152 pp., pl., 9 x 6, cf.

11 **GURLEY, W., and L. E.** Manual of the principal instruments used in American engineering and surveying. ed. 15. Troy, 1869. 164 pp., il., pl., 7 x 4, cl.

HACKLEY, C. W. Treatise on trigonometry, plane and spherical, with its application to navigation and surveying, nautical and practical astronomy and geodesy, with logarithmic, trigonometrical and nautical tables; for the use of schools and colleges. 1860. (See Yh9-12.)

10 **HARDEN, J. H., and E. B.** Construction of maps in relief. no place, 1887. 23 pp., il., pl., 9 x 6, pap.

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53 **HAUPT, L. M.** Tables of scales of maps and stadia reduction tables. no place, no date. unpaged, tab., 8 x 5, pap.

79 ——The topographer, his instruments and methods. Phil., 1883. 247 pp., il., pl maps, 9 x 6, cl.

68 **HAYDEN, EVERETT.** Pilot chart of the North Atlantic Ocean. Note: A description of the construction of the chart. Phil., 1888. 28 pp., pl., maps, 10 x 6, pap.

76 **HEATHER, J. F.** Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. Lond., 1849. 6 + 183 pp., il., 2 pl., 7 x 4, cl.

21 **IBAÑEZ E IBAÑEZ, CARLOS.** Nuevo aparato de medir bases geodesicas. Madrid, 1869. 176 pp., pl., 8 x 6, ½ mor.

INSTITUTION OF SURVEYORS, NEW SOUTH WALES. List of surveyors licensed to practice in New South Wales. 1899. (See Sg-3.2.)

——The Surveyor: The journal of the Institution. (See Sg-3.1.)

37 **JACKSON, BASIL.** Course of military surveying; including instructions for sketching in the field, plan drawing, levelling, military reconnoissance, etc.; also, a particular description of the surveying instruments commonly employed by military men in the field, with explanations of the methods of using them, and instructions for their adjustment. Lond., 1838. 16 + 310 pp., il., pl., 9 x 6, cl.

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14 **JOHNSON, J. B.** Manual of the theory and practice of topographical surveying by means of the transit and stadia; including secondary base-line and triangulation measurements, and the projection of maps; accompanied by reduction tables and diagrams, plates of map-lettering and topographical signs. N. Y., 1885. 10 + 111 pp., il., pl., 9 x 6, cl.

24 ——Theory and practice of surveying; designed for the use of surveyors and engineers generally, but especially for the use of students in engineering. ed. 8. N. Y., 1887. 23 + 703 pp., il., 3 pl., 9 x 6, cl.

24*a* ——Same. ed. 7, rev. and enl. N. Y., 1891. 25 + 730 pp., il., 3 pl., 9 x 6, cl.

24*b* ——Same. ed. 15, rev. and enl. N. Y., 1900. 30 + 838 pp., il., 5 pl., 12 tab., 9 x 6, cl.

5 **JUDAH, T. D.** Tables of land areas. Niagara Falls, 1851. 4 tab., 14 x 10, cl.

61 **KNIBBS, G. H.** Prize essay on the nature and public utility of trigonometrical, general and cadastral survey. Sydney, 1891. 43 pp., pl., 9 x 6, pap.

58 **KNUDSEN, AUGUSTUS.** Triangular surveys from single stations. San Fran., 1893. 32 pp., 6 x 4, bds.

4 **KREUTER, FRANZ.** Das neue Tacheometer aus dem Reichenbachschen mathematisch-mechanischen Institute in München; ein Universal-Instrument für alle Feldarbeiten des Ingenieurs. Brüm, 1876. 4 + 88 pp., pl., 9 x 6, pap.

65 **LE BARON, J. F.** Computation of the magnetic declination and the annual change and the desirability of the establishment by the States of a true polar meridian and standard of length in each county. no place, 1886. 52 pp., 8 x 5, pap.

55 **LEHMAN, A. E.** Topographical models, their construction and uses. no place, 1885. 19 pp., il., 9 x 6, pap.

LESLEY, J. P. Report of geographical survey for the Virginia and Tennessee R. R. Co. 1854. (See Ae-1, p. 671.)

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LIETZE, ERNST. Modern heliographic processes: A manual of instruction in the art of reproducing drawings, engravings, manuscripts, etc., by the action of light; for the use of engineers, architects, draughtsmen, artists and scientists. 1888. (See Ze-7.)

57 **LOEW, SIGISMUND.** Diagram for ascertaining the height or elevation of any particular point above another, when the slope of the ground and the horizontal distance is known; being peculiarly applicable in taking topography, finding the ascent, descent and inclinations of roads, streets, etc. no place, no date. pl., 14 x 18, pap.

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32 **MERRETT, H. S.** Practical treatise on the science of land and engineering surveying, levelling, estimating quantities, etc., with a general description of the several instruments required for surveying, levelling, plotting, etc. Lond., 1863. 8 + 317 pp., 41 pl., 10 x 7, cl.

78 **MERRIMAN, MANSFIELD.** Elements of precise surveying and geodesy. N. Y., 1899. 261 pp., il., 9 x 6, cl.

——Report of the progress of the geodetic triangulation of Pennsylvania. 1886. (See Yh-123, Annual report, 1885, p. 681.)

34 **MERRIMAN, MANSFIELD, and J. P. BROOKS.** Handbook for surveyors. ed. 5. N. Y., 1895. 242 pp., il., 7 x 4, mor.

59 **MORLEY, FRED.** The moment planimeter, or integrator, and its application to civil engineering. no place, no date. 32 pp., il., 9 x 6, pap.

NEW JERSEY—GEOLOGICAL SURVEY. Bench-marks: Descriptions and elevations of bench-marks in New Jersey. 1888. (See Yh-25, v. 1, p. 231.)

NEW YORK STATE—ADIRONDACK WILDERNESS SURVEY. Report on the topographical survey of the Adirondack Wilderness of New York, by Verplanck Colvin; 2d, 7th; 1873, '78. 1874–80. (See Qe-56.)

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NEW YORK STATE—UNIVERSITY. Report of the Regents of the University of the State of New York on the re-survey of the New York and Pennsylvania boundary line. 1878–80. (See Qe-2.)

63 **OHIO—SECRETARY OF STATE.** Code of rules or instructions for the government of county surveyors in the discharge of their duties. Columbus, 1882. 70 pp., il., 6 x 4, pap.

12 **PLANE-TABLE, THE,** and its use in topographical surveying; from the papers of the United States Coast Survey. N. Y., 1869. 79 pp., pl., map, 9 x 6, cl.

RANKINE, W. J. M. Of engineering geodesy; or, Surveying, levelling and setting-out. 1867. (See V-10, p. 1.)

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81 **RAYMOND, W. G.** Text-book of plane surveying. Contents: Pt. 1, Principal instruments and elementary operations. Pt. 2, General surveying methods. N. Y., 1896. 485 pp., il., pl., maps, 9 x 6, cl.

88 **REINHARDT, C. W.** The technic of mechanical drafting: A practical guide to neat, correct and legible drawing. N. Y., 1900. 36 pp., il., 10 pl., 8 x 11, cl.

48 **ROBSON, WILLIAM.** Grammigraphia; or, the Grammar of drawing: A system of appearance, which, by easy rules, communicates its principles and shews how it is to be presented by lines; distinguishing the real figure in nature from the appearance, or shewing the appearance by the reality. Lond., 1799. 150 pp., il., 11 x 9, bds.

SHIELDS, J. E. Engineering geodesy. 1877. (See V-102, p. 111.)

22 **SIMMS, F. W.** Treatise on the principal mathematical instruments employed in surveying, levelling and astronomy, explaining their construction, adjustments and use; with an appendix and tables. ed. 2, enl. Lond., 1836. 11 + 118 pp., il., tab., 9 x 6, bds.

17 ——Treatise on the principles and practice of levelling, showing its application to purposes of civil engineering, particularly in the construction of roads; with Mr. Telford's rules for the same. ed. 2. Lond., 1843. 7 + 115 pp., il., pl., 9 x 6, cl.

51 **SOARE, W. E.** "The citometer": An instrument for setting out slope-stakes and computing the cubic contents of earthworks on railroads, canals, etc., by a newly invented system. Ottawa, 1891 (?) 4 pp., 3 pl., 8 x 5, pap.

29 **SOPWITH, T.** Treatise on isometrical drawing as applicable to geological and mining plans, picturesque delineations of ornamental grounds, perspective views and working plans of buildings and machinery, and to general purposes of civil engineering; with details of improved methods of preserving plans and records of subterranean operations in mining districts. Lond., 1834. 26 + 239 pp., 1 + 32 pl., 9 x 6, cl.

46 **STEVENSON, DAVID.** Treatise on the application of marine surveying and hydrometry to the practice of civil engineering. Edin., 1842. 13 + 178 pp., il., pl., maps, 10 x 6, cl.

80 **UNITED STATES—BUREAU OF NAVIGATION.** Projection tables for the use of the United States Navy; comprising a new table of meridional parts for the mercator projection, with reference to the terrestrial spheroid and the tables of the polyconic projection, as used in the United States Coast Survey, adapted to areas both of small and large extent. Wash., 1869. 236 pp., pl., 9 x 6, ¾ ro.

UNITED STATES—COAST AND GEODETIC SURVEY. Bibliography of geodesy. 1898. (See Qe-80, Report, 1897, p. 317.)

1 ——Geodesy: Proceedings of the geodetic conference held at Washington, D. C., Jan. 9th to Feb. 28th, 1894; Appendix No. 9, Report for 1893. Wash., 1894. pp. 325-424, il., pl., maps, 9 x 6, pap.

——Methods and results of the United States Coast and Geodetic Survey as illustrated at the World's Columbian Exposition, 1893. (Coast and Geodetic Survey. Bulletin No. 29.) 1893. (See Y1-42, v. 2, p. 39.)

——Tables for the projection of maps, based on a polyconic development of the Clarke spheroid and computed from the equator to the pole. 1885. (See Qe-80, Report, 1884, p. 135.)

41 ——Treatise on projections; by Thomas Craig. Wash., 1882. 14 + 247 pp., il., 11 x 9, cl.

35 **UNITED STATES—CORPS OF ENGINEERS.** Collection of tables and formulæ useful in geodesy and practical astronomy, including elements for the projection of maps; prepared by T. J. Lee. Wash., 1849. 14 + 94 + 95 pp., 8 x 5, ½ skiv.

35a ——Same. ed. 2. Wash., 1853. 18 + 242 pp., 9 x 6, cl.

35b ——Tables and formulæ useful in surveying, geodesy and practical astronomy; including elements for the projection of maps and instructions for field magnetic observations. (Professional Papers, Corps of Engineers.) ed. 3, rev. and enl. Wash., 1873. 9 + 310 pp., il., 9 x 6, cl.

62 ——On the use of the barometer on surveys and reconnaissances, being a compendium without plates, of No. 15 of the "Professional Papers of the Corps of Engineers"; by R. S. Williamson. Wash., 1878. 49 pp., 8 tab., 9 x 6, pap.

61 ——On the use of the barometer on surveys and reconnaissances, by R. S. Williamson. (Professional Papers, Corps of Engineers, No. 15.) Contents: Pt. 1, Meteorology in its connection with hypsometry. Pt. 2, Barometric hypsometry. N. Y., 1868. 248 pp., 31 pl., map, 12 x 10, cl.

62 ——Practical tables in meteorology and hypsometry, being the appendix to the paper on the use of the barometer on surveys and reconnaissances; by R. S. Williamson. (Professional Papers, Corps of Engineers, No. 15, Appendix.) N. Y., 1868. 155 pp., 12 x 10, pap.

——Report upon the primary triangulation of the United States Lake Survey; by C. B. Comstock, aided by the assistants on the survey. 1882. (See Qe-72.)

R—(*Continued*).

25 **UNITED STATES—GENERAL LAND OFFICE.** Instructions to the surveyors general of public lands of the United States, for those surveying districts established in, and since the year 1850; containing, also, a manual of instructions to regulate the field operations of deputy surveyors. Wash., 1871. 70 pp., pl., 9 x 6, cl.

28 ——Manual of surveying instructions for the survey of the public lands of the United States and private land claims. Wash., 1894. 236 pp., pl., maps, 9 x 6, cl.

8 **UNITED STATES—GEOLOGICAL SURVEY.** Summary of the primary triangulation executed by the United States Geological Survey between the years 1882 and 1894; by Henry Gannett. Wash., 1896. pp. 877-910, 11 x 8, pap.

60 **UNITED STATES—HYDROGRAPHIC OFFICE.** Memoranda on running surveys, with remarks on chronometer errors and rates; by E. R. Knorr. Wash., 1872. 21 pp., 9 x 6, pap.

67 **UNITED STATES—ORDNANCE OFFICE.** Description of the telemeter (télémètre de poche): An instrument for the rapid measurement of distances invented by Capt. A. Gautier and recommended for experimental trial by the Board of Officers which convened Mar. 16th, 1870. (Ordnance Memoranda, No. 12.) Wash., 1872. 13 pp., pl., 9 x 6, pap.

VICTORIAN INSTITUTE OF SURVEYORS. Intercolonial conference of surveyors: Report and proceedings. 1892. (See Sg-4.2.)

——Transactions and proceedings. (See Sg-4.1.)

43 **VIOLLET-LE-DUC, E. E.** Learning to draw; or, the Story of a young designer; tr. fr. the French by Virginia Champlin. N. Y., 1888. 5 + 324 pp., il., 8 x 5, cl.

54 **VON GELDERN, OTTO.** The cyclotomic transit: Description of a novel surveying instrument. San Fran., 1895. 7 pp., il., 9 x 6, pap.

WARE, W. R. Study of architectural drawing in the school of architecture. 1896. (See Ye-118.)

49 **WEINER, JOSEF.** Vorlegeblätter für den Unterricht im Maschinenzeichnen an Gewerbeschulen und gewerblichen Fortbildungsschulen. Wien, no date. 20 pl., 26 x 20, ½ mor.

38 **WERNER, C.** Die Tacheometrie und deren Anwendung bei Tracestudien. Wien, 1873. 6 + 95 pp., pl., 9 x 6, bds.

39 **WHITTOCK, NATHANIEL.** Oxford drawing book; or, the Art of drawing and the theory and practice of perspective, in a series of letters containing progressive information on sketching, drawing and colouring landscape scenery, animals and the human figure; with a new method of practical perspective. new ed. Lond., 1825. 6 + 159 pp., pl., 9 x 11, ½ skiv.

30 **WILLIAMS, J. B.** Practical geodesy; comprising chain surveying and the use of surveying instruments, levelling and tracing of contours; together with trigonometrical, colonial, mining and maritime surveying; with new chapters on railway, parish and estate surveying. ed. 2. Lond., 1846. 20 + 330 pp., il., pl., 9 x 6, bds.

40 **WILME, B. P.** Handbook for mapping, engineering and architectural drawing. Lond., 1846. 8 + 69 pp., il., pl., 11 x 9, ½ mor.

3 **WING, C. B.** Freehand lettering for working drawings. no place, 1892. unpaged, 6 x 8, pap.

WOODWARD, R. S. Formulas and tables to facilitate the construction and use of maps. 1889. (See Yh-87, No. 50.)

84 **WRIGHT, C. H., and C. B. WING.** Manual of bridge drafting. Stanford University, Cal., 1896. 214 pp., pl., 12 x 9, cl.

SOCIETY PUBLICATIONS.

SOCIETY PUBLICATIONS—NORTH AMERICA.

Sa1 CANADA.

2.1 **ASSOCIATION OF DOMINION LAND SURVEYORS.** Report of proceedings at the annual meeting; 4th-8th; 1887-91. Note: No. 6 (1889) wanting. Ottawa, 1887-91. 4 v., il., 9 x 6, unbound.

3.1 **ASSOCIATION OF PROVINCIAL LAND SURVEYORS OF ONTARIO.** Proceedings at the annual meeting; 1st-6th; 1886-91. Toronto, 1886-91. 6 v., il., 9 x 6, unbound.

4.3 **CANADIAN INSTITUTE.** Annual report; 1886-94. Note: Report, 1889-90 wanting. Toronto, 1888-94. 7 v., il., 10 x 6, unbound.

4.4 ——Appeal to the Canadian Institute on the rectification of Parliament; together with the conditions on which the Council of the Institute offers to award one thousand dollars for prize essays. Sandford Fleming. Toronto, 1892. 176 pp., 10 x 7, pap.

4.5 ——Canadian Journal; 1857-59 (new ser., v. 3-4). Toronto, 1858-59. 3 v. in 2, il., 8 x 6, ¾ sh.

4.2 ——Proceedings; 1884-90, '97-98 (ser. 3, v. 2-7; new ser., v. 1). Note: New ser., v. 1, No. 3 wanting. Toronto, 1884-98. 7 v., 10 x 7, unbound.

4.1 ——Transactions; 1890-99 (v. 1-6). Toronto. 1890-99. 4 v. in 11, il., 10 x 7, unbound.

7.1 **CANADIAN MINING INSTITUTE.** Journal; 1898-1900 (v. 1-3). Ottawa, 1898-1900. 3 v., il., pl., 9 x 6, unbound.

5.4 **CANADIAN SOCIETY OF CIVIL ENGINEERS.** Address of President at the annual meeting; 1898. no place, 1898. 1 v., 9 x 6, pap.

5.3 ——Charter, by-laws, and list of members; 1887-98, '96-97, '99-1900. Montreal. 1887-1900. 11 v., 9 x 6, pap.

5.2 ——Report of annual meeting; 1892-96, '99. Montreal, 1892-99. 6 v., 9 x 6, pap.

5.1 ——Transactions; 1887-98 (v. 1-12). Montreal, 1887-99. 12 v., 9 x 6, unbound.

6.1 **ENGINEERING SOCIETY OF THE SCHOOL OF PRACTICAL SCIENCE,** Toronto. Papers; 1885-1900 (Nos. 1-13). Toronto, 1887-1900. 13 v., il., 9 x 6, pap.

8.1 **GEOGRAPHICAL SOCIETY OF QUEBEC.** Transactions; 1893-97. Note: Text in English and French. Quebec, 1897. 1 v., il., pl., por., 9 x 6, pap.

9.1 **NOVA SCOTIAN INSTITUTE OF SCIENCE.** Proceedings and transactions; 1882-98 (v. 6-9). Halifax, 1882-98. 4 v., 9 x 6, unbound.

10.1 **QUEBEC ASSOCIATION OF ARCHITECTS.** Mr. Baillairgé's address on the occasion (Oct. 2d, 1895) of his vacating the Presidency of the Society. Quebec, 1895. 74 pp., 9 x 6, pap.

1.1 **ROYAL SOCIETY OF CANADA.** Transactions and proceedings; 1882-98 (ser. 1, v. 1-12; ser. 2, v. 1-4). Montreal, 1883-98. 17 v. in 16, 12 x 9, 10 x 7, cl.

Sa2 MEXICO.

2.1 **ASOCIACION DE INGENIEROS Y ARQUITECTOS DE MÉXICO.** Anales; 1888-97 (v. 1-6). México, 1888-97. 6 v., il., 9 x 6, pap.

1.1 **SOCIEDAD CIENTÍFICA "ANTONIO ALZATE."** Memorias y revista; 1891-99 (v. 5-12). Note: v. 6, Nos. 7, 8 (1891-92); v. 7, Nos. 7, 8 (1892-93); v. 10, Nos. 5-12 (1896-97) wanting. México, 1891-99. 8 v., 9 x 6, unbound.

Sa3 UNITED STATES.

116.1 **ALABAMA INDUSTRIAL AND SCIENTIFIC SOCIETY.** Proceedings; 1891-98 (v. 1-8). Note: v. 1, No. 1 (1891); v. 2 (1892) wanting. Tuscaloosa, 1892-99. 8 v., 9 x 6, unbound.

30.1 **AMERICAN ACADEMY OF ARTS AND SCIENCES.** Proceedings; May, 1877-87 (v. 13-22). Bost., 1878-87. 10 v. in 15, 9 x 6, pap.

Sa3 UNITED STATES—(*Continued*).

29.2 **AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Constitution, list of meetings, committees and members for the twenty-seventh meeting to be held at St. Louis, Mo., Aug., 1878. Salem, 1878. 48 pp., 10 x 6, pap.

29.1 ——Proceedings; 1871, '85, '87-96 (v. 20, 34, 36-45). Salem, 1872-97. 12 v., 10 x 7, pap., cl.

——Proceedings; sixth meeting, 1851. Wash., 1852. 1 v., pl., tab., 9 x 6, b. p. Nd-1, p. 751.

29.3 ——Report of the Committee on Weights, Measures and Coinage. Salem, 1875. pp. 19-25, 9 x 6, pap.

167.1 **AMERICAN ASSOCIATION OF INVENTORS AND MANUFACTURERS.** Proceedings and addresses: Celebration of the beginning of the second century of the American patent system, at Washington City, D. C., Apr. 8th, 9th, 10th, 1891. Wash., 1892. 5 + 554 pp., 9 x 6, cl.

46.1 **AMERICAN BOILER MANUFACTURERS' ASSOCIATION.** Proceedings of the annual convention; 7th; 1895. St. Louis, 1895. 1 v., il., 9 x 6, pap.

25.1 **AMERICAN CHEMICAL SOCIETY.** Journal; 1879-81 (v. 1-3). Note: v. 2, Nos. 4, 6; v. 3, Nos. 7-12 wanting. N. Y., 1879-81. 3 v., 9 x 6, unbound.

88.1 **AMERICAN CRANBERRY GROWERS' ASSOCIATION.** Proceedings of the annual convention; 16th-17th; 1885-86. Trenton, 1885-86. 2 v., 9 x 6, pap.

83.2 ——Proceedings of the annual meeting; 1885-86. Trenton, 1885-86. 2 v., il., 9 x 6, pap.

AMERICAN FINE ARTS SOCIETY. Annual report and list of members. 1899. (See Sa3-80.1.)

125.2 **AMERICAN GAS LIGHT ASSOCIATION.** Address of Theobald Forstall, President, delivered at the eleventh annual meeting of the Association, held in New York City, Oct. 17th, 1883. no place, no date. 8 pp., 9 x 6, pap. no title-page.

125.1 ——Officers and members; 1884. N. Y., 1884. 1 v., 10 x 8, pap.

125.3 ——Report of the proceedings of the annual meeting; 5th-6th; 1877-78. N. Y., 1879. 2 v. in 1, il., 9 x 6, cl.

23.1 **AMERICAN GEOGRAPHICAL SOCIETY.** Address (of the President) at the annual meeting; 1875. N. Y., 1875. 1 v., 9 x 6, pap.

23.2 ——Bulletin; 1876-77, No. 5; 1878, No. 4; 1880, No. 4; 1881, No. 2; 1882, No. 2; 1885, Nos. 4-5; 1886, Nos. 1-2; 1899, No. 4. N.Y., 1877-89. 10 v. in 8, pl., maps, 9 x 6, unbound.

23.3 ——Journal; Jan.-June, 1859 (v. 1, Nos. 1-6). no place, 1859. 1 v., pl., maps, 9 x 7, ½ skiv.

33.2 **AMERICAN INSTITUTE OF ARCHITECTS.** Constitution and by-laws; 1868, '76. no place, 1872-77. 2 v., 7 x 5, pap.

33.1 ——Proceedings of the annual convention; 1st-33d; 1867-99. Note: Proceedings for 1889 contain the proceedings of the Western Association of Architects; Proceedings: 4th-10th, 25th-26th (1870-76, '91-92) wanting. N. Y., 1867-99. 24 v. in 21, 12 x 9, 10 x 7, cl., pap.

33.4 ——Report of A. J. Bloor, Delegate of the New York Chapter, to the twenty-fifth annual convention of the Institute, held in Boston, Oct. 28th, 29th and 30th, 1891. N. Y., 1891. 32 pp., 6 x 4, pap.

33.3 ——Souvenir of the 28th annual convention of the American Institute of Architects to be held at the American Fine Arts Building, New York, Oct. 15th, 16th, 17th, 1894. N. Y., 1894. 55 + 96 pp., il., 11 x 8, pap.

AMERICAN INSTITUTE OF ARCHITECTS, BROOKLYN CHAPTER. Annual report and list of members. 1899. (See Sa3-80.1.)

4.2 **AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Historical sketch of its organization and work; catalogue of members and publications, Dec. 1st, 1892. N. Y., 1892. 45 pp., pl., 9 x 6, pap.

4.3 ——Rules. N. Y., 1884. 5 pp., 9 x 6, pap.

4.1 ——Transactions; 1884-99 (v. 1-16). Note: Contains constitution and list of members. N. Y., 1884-99. 16 v. in 13, il., por., pl., 9 x 6, ½ mor., cl.

3.5 **AMERICAN INSTITUTE OF MINING ENGINEERS.** Bulletin; No. 1. N. Y., 1899. 1 v., 9 x 6, pap.

3.3 ——Guide to Baltimore, with an account of the geology of its environs. Note: Prepared for the use of the Institute at its Baltimore meeting, Feb., 1892. Balt., 1892. 11 + 139 pp., pl., maps, 7 x 5, cl.

3.4 ——Iron district of Michigan. Note: Published by the Centennial Committee. Phil., 1876. 5 pp., 9 x 6, pap. no title-page.

3.2 ——Officers, members, rules, etc.; 1885-99. Note: 1888 wanting. Phil., 1885-99. 14 v., 9 x 6, pap.

3.1 ——Transactions; 1871-98 (v. 1-28). N. Y., 1873-99. 28 v., il., pl., 9 x 6, ½ mor.

21.1 **AMERICAN INSTITUTE OF THE CITY OF NEW YORK.** Annual report; 5th-32d (1846-71). Note: Report, 1851-60, '70 wanting. Albany, 1847-72. 15 v., 9 x 6, cl.

84.1 **AMERICAN IRON AND STEEL ASSOCIATION.** Annual statistical report; containing complete statistics of the iron and steel and related industries of the

Sa3 **UNITED STATES**—(*Continued*).

United States; also, a brief review of their present condition; also, statistics of the iron and steel industries of foreign countries; 1867-96. Note: Report, 1868-70, '72-73 wanting. Phil., 1868-97. 26 v., 9 x 6, pap.

84.2 ——Bulletin (bi-weekly); 1867-99 (v. 1-33). Note: v. 2-5 (1868-71) wanting. Phil., 1867-99. 29 v., 15 x 10, unbound.

84.12 ——Causes of our national prosperity. Phila., 1879 (?) 7 pp., 9 x 6, pap.

84.11 ——Duty on steel rails: Authentic statistics which end all controversy. (Tariff Tract No. 5, 1890.) Phil., 1890 (?) 4 pp., 9 x 6, pap. no title-page.

84.10 ——Hold the fort: A collection of fresh facts and arguments in support of the policy of protection to home industry. Phil., no date. 32 pp., 9 x 6, pap. no title-page.

84.9 ——Metal schedule of the tariff act of 1890, compared with the old tariff law; with index. Phil., 1890. 20 pp., 9 x 6, pap.

84.8 ——Mr. Wood's tariff bill: A good bill for England; favorable comments by the English press; respectfully submitted to the serious attention of the American Congress. no place, no date. 8 pp., 9 x 6, pap. no title-page.

84.7 ——Our foreign commerce since 1861. (Tariff Tract No. 5, 1880.) Phil., 1880 (?) 4 pp., 9 x 6, pap. no title-page.

84.6 ——Question of tariff revision: A letter in reply to a circular letter dated July 17th, 1885, from Daniel Manning, Secretary of the Treasury; with an appendix. Phil., 1885. 43 pp., 9 x 6, pap.

84.5 ——The revival: Reasons for the belief that national prosperity is returning; extracts from the speech of President Hayes at St. Paul, Sept. 5th, 1878, etc. Phil., no date. 32 pp., 9 x 6, pap. no title-page.

84.4 ——Who are benefited by protection? An editorial article in the Bulletin of the American Iron and Steel Association, Aug. 11th, 1880. (Tariff Tract No. 8, 1880.) Phil., 1880 (?) 4 pp., 9 x 6, pap. no title-page.

84.3 ——Who is Augustus Mongredien? An editorial article in the Bulletin of the American Iron and Steel Association, July 24th, 1880. (Tariff Tract No. 4, 1880.) Note: A discussion of the policy of free trade. Phil., 1880 (?) 12 pp., 9 x 6, pap. no title-page.

159.1 **AMERICAN METRIC BUREAU.** Membership. Note: Duties and privileges of members. no place, no date. unpaged, 6 x 4, pap. no title-page.

109.1 **AMERICAN METROLOGICAL SOCIETY.** Bulletin; 1874, '78. N. Y., 1874-78. 2 v., 9 x 6, pap.

109.2 ——Memorial; praying for the passage of an act permitting and requiring the use of the metric denominations of weights and measures in the custom-houses of the United States. no place, no date. 1 p., 14 x 8, pap. no title-page.

87.2 **AMERICAN PAPER AND PULP ASSOCIATION.** Constitution, officers, committees, members, historical sketch; 1897-98. N. Y., 1898. 1 v., 9 x 6, cl.

87.1 ——Report of proceedings at the meeting; 21st; 1898. no place, 1898. 1 v., il., 9 x 6, cl.

23.1 **AMERICAN PHILOSOPHICAL SOCIETY.** Proceedings; 1873-June, '76 (v. 13-14, 16). Phil., 1873-76. 3 v., il., pl., 9 x 6, unbound.

23.2 ——Transactions; 1863 (new ser., v. 12, Pt. 3). Phil., 1863. 1 v., 12 x 10, pap.

81.1 **AMERICAN PIG IRON MANUFACTURERS' ASSOCIATION.** Annual convention; 1872. Phil., 1872. 1 v., 9 x 6, pap.

81.2 ——Proceedings and statistics; June, 1872, Feb., '73. Phil., 1872-73. 2 v., il., 9 x 6, pap.

65.2 **AMERICAN PUBLIC HEALTH ASSOCIATION.** Journal (quarterly); 1896-97 (v. 2-3). Note: v. 1, Pt. 3; v. 2, Pt. 3-4 (July, 1896, July, Oct., '97) wanting. Concord, 1896-97. 2 v., 10 x 6, unbound.

65.1 ——Public health: Reports and papers presented at the meetings of the Association; 1873-93 (v. 1-19). Note: v. 18 (1892) wanting. N. Y., 1875-94. 18 v., il., 9 x 6, cl.

88.1 **AMERICAN RAILWAY ASSOCIATION.** Proceedings; Apr. 14th, 1886-Oct. 13th, '98 (v. 1-2). Note: Appendix to v. 1 contains proceedings of the General Time Convention (1872-85) and the Southern Railway Time Convention (1877-85). N. Y., no date. 2 v., 11 x 8, ½ mor.

114.1 **AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOciation.** Constitution and list of charter members. Cin., 1899. 1 v., 8 x 5, pap.

155.1 **AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.** Report of proceedings of the annual convention: 1st-18th; 1868-85. Note: 4th report wanting. Cin., 1870-85. 15 v., 9 x 6, pap.

32.1 **AMERICAN SOCIAL SCIENCE ASSOCIATION.** Journal of social science; containing the transactions of the American Association; 1869-73 (Nos. 1-5). N. Y., 1869-73. 5 v., 9 x 6, pap.

106.1 **AMERICAN SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACtures and Commerce, New York City.** Constitution and by-laws. N. Y., 1875. 1 v., 9 x 5, pap.

27.1 **AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO** Annual report; 33d-34th; 1898-99. N. Y., 1899-1900. 2 v., il., 9 x 6, pa

Sa3 UNITED STATES—(*Continued*).

1.8 **AMERICAN SOCIETY OF CIVIL ENGINEERS.** Address of the President at the annual convention; 1899. N. Y., 1899. 1 v., 9 x 6, ¾ mor.

——Address of W. J. McAlpine on assuming the chair after his election as President of the Society, Sept. 2d, 1868. no place, 1868. 11 pp., 9 x 6, b. p. Dc-442, p. 1.

1.5 ——American Society of Civil Engineers and its future: A paper, portions of which were read Apr. 25th, 1877. W. M. Roberts. no place, 1877. 31 pp., 10 x 8, pap. no title-page. manuscript.

1.10 ——Bulletin; Nos. 1-69; Apr., 1892-Dec., '95. Note: No. 56 wanting. no place, 1892-95. 68 v., 9 x 6, pap.

1.6 ——Colorado: Some answers to questions likely to be asked by the members of the American Society of Civil Engineers during their visit to Denver, on the occasion of their annual convention, July 2d, 1886. Denver Society of Civil Engineers. Denver, 1886. 139 pp., pl., maps, 9 x 6, pap.

1.3 ——Constitution and list of members; 1897. Note: Subsequent to 1897, the Constitution and list of members is bound with the Proceedings of the Society. N. Y., 1897. 1 v., 9 x 6, cl.

1.9 ——Documents in reference to the general adoption of the twenty-four hour notation on the railways of America; submitted at the annual meeting of the Society, New York, Jan. 19th, 1887. Ottawa, 1887. 49 pp., 8 x 5, pap.

1.4 ——Historical sketch of the American Society of Civil Engineers. Chas. Warren Hunt. N. Y., 1897. 92 + 6 pp., por., pl., 9 x 6, mor.

1.7 ——Index to the library; Pt. 1, Railroads. N. Y., 1881. 188 pp., 9 x 6, pap.

1.6 ——Objects of interest in Philadelphia, for visitors to the thirty-first annual convention of the Society at Cape May, N. J., June 27th-30th, 1899. Phil., 1899. 31 pp., maps, 7 x 4, cl.

1.2 ——Proceedings (monthly except June and July); Nov., 1873-Dec., '99 (v. 1-25). N. Y., 1876-99. 25 v. in 16, 9 x 6, ½ mor.

1.6 ——Proceedings and papers of the fourth annual convention of the Society held in Chicago, June 5th and 6th, 1872. N. Y., 1872. 169 pp., il., pl., 9 x 6, cl.

1.1 ——Transactions; 1868-June, 1900 (v. 1-43). N. Y., 1872-99. 43 v. in 44, il., 9 x 6, ½ mor.

1.1*a* ——Same; Index; v. 1-34. N. Y., 1890-96. 3 v., 9 x 6, ½ mor., pap.

38.3 **AMERICAN SOCIETY OF IRRIGATION ENGINEERS.** Annual; 1892-93. Denver, 1894. 1 v., il., 9 x 6, pap.

38.2 ——Quarterly; Jan., Apr., 1895 (v. 2, Nos. 1-2). Denver, 1895. 1 v., il., 9 x 6, unbound.

38.1 ——Transactions; Jan., 1897 (v. 2, No. 3). Denver, 1897. 1 v., il., 9 x 6, unbound.

2.2 **AMERICAN SOCIETY OF MECHANICAL ENGINEERS.** Catalogue, officers, members and rules; 1st-21st; 1880-1900. Note: Nos. 2-3, 7, 9, 11, 13-14, 16, 17 (1881-82, '86, '88, '90, '92-93, '95, '96) wanting. N. Y., 1880-1900. 15 v., 9 x 6, pap.

2.3 ——President's address; 1898. N. Y., 1898. 1 v., 9 x 6, pap.

2.1 ——Transactions; 1880-99 (v. 1-20). N. Y., 1880-99. 20 v., il., pl., tab., 9 x 6, ½ mor.

41.1 **AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.** Proceedings of the meeting; 18th-25th; 1889-95. Note: Nos. 19, 23-24 (1890, Oct., '93-94) wanting. N. Y., 1890-96. 5 v., il., 10 x 7, pap.

153.1 **AMERICAN TRAIN DISPATCHERS' ASSOCIATION.** Proceedings of the annual meeting; 1st-2d; 1884-85. Buffalo, 1884-85. 2 v., 8 x 5, pap.

6.3 **AMERICAN WATER-WORKS ASSOCIATION.** Constitution and by-laws; together with proceedings of first annual session held at St. Louis, Mo., Mar. 29th, 30th and 31st, 1881. Hannibal, 1881. 40 pp., 6 x 3, pap.

6.4 ——Impending dangers to health and life from abuse of water in North America: Abstract of a report by a Committee appointed by the Association to memorialize the President and Congress for laws protecting public sources of water supply pure for the people. no place. 1899. 15 pp., 9 x 6, pap.

6.1 ——Report of proceedings of the annual meeting; 2d-20th; 1882-1900. Note: Report No. 8 (1888) wanting. Hannibal, 1882-1900. 18 v., il., 9 x 6, pap.

6.2 ——Souvenir of the convention of the Association at Philadelphia, Apr. 14th-17th, 1891. no place, no date. pl., 5 x 7, cl.

66.1 **ANTHRACITE COAL OPERATORS' ASSOCIATION.** Association letter; Sept., 1897-Dec., '99. N. Y., 1897-99. 3 v., 10 x 6, unbound.

ARCHITECTURAL LEAGUE OF NEW YORK. See New York Architectural League.

50.1 **ARKANSAS SOCIETY OF ENGINEERS, ARCHITECTS AND SURVEYORS.** Transactions; 1887-89 (v. 1-3). Little Rock, 1887-90. 3 v., il., 9 x 6, pap.

80.1 **ART SOCIETIES OF NEW YORK.** Year book; 1898-99. N. Y., 1899. 1 v., il., 10 x 7, cl.

7.1 **ASSOCIATION OF CIVIL ENGINEERS OF CORNELL UNIVERSITY.** Transactions; 1892-1900 (v. 1-8). Ithaca, 1893-1900. 8 v., il., 9 x 6, pap.

Sa3 UNITED STATES—(*Continued*).

ASSOCIATION OF COUNTY SURVEYORS AND CIVIL ENGINEERS OF THE State of Indiana. See Indiana Engineering Society.

ASSOCIATION OF COUNTY SURVEYORS AND CIVIL ENGINEERS OF THE State of Ohio. See Ohio Society of Surveyors and Civil Engineers.

5.1 **ASSOCIATION OF ENGINEERING SOCIETIES.** Journal (monthly); 1891-98 (v. 1-21). Phil., 1881-98. 21 v., il., 9 x 6, ½ mor.

37.1 **ASSOCIATION OF ENGINEERS OF VIRGINIA.** Transactions; July, 1891-Mar., '93 (No. 2). Roanoke, 1893. 1 v., il., 9 x 6, pap.

45.2 **ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILD-**ings. Constitution and by-laws, and directory of officers. Concord, 1896. 15 pp., 6 x 4, pap.

45.3 ——Directory of members. no place, 1895. 7 pp., 9 x 6, pap. no title-page.

45.1 ——Proceedings of the annual convention; 2d-8th; 1892-98. Concord, 1892-98. 7 v., il., 9 x 6, pap.

34.1 **BOSTON SOCIETY OF CIVIL ENGINEERS.** Annual address of the President; 1889. no place, 1889. 1 v., 9 x 6, pap.

34.2 ——By-laws. Newton, 1875. 9 pp., 6 x 4, pap.

34.5 ——Constitution and by-laws and list of members; 1880-1900. Note: 1882-84, '86, '89, '93, '97 wanting. Bost., 1880-1900. 14 v., 9 x 6, pap.

34.3 ——Historical address; by Desmond FitzGerald; read before the Society at the celebration of its semi-centennial, Nov. 11th, 1898. no place, 1898. 13 pp., 9 x 6, pap.

34.4 ——Library and the system of cataloguing: Report of the Committee on the Library, presented to the Society, Mar. 17th, 1897. Bost.,1897. 28 pp., pl., 9 x 6, pap.

34.7 ——Metric system of weights and measures: Report of a committee of the Society. Note: A committee appointed for the purpose of interesting other organizations in the adoption of the metric system. no place, 1875 (?) 7 pp., 9 x 6, pap.

34.6 ——Proceedings; Sept., 1879-June, '81. Bost., 1881. 1 v., il., 9 x 6, unbound.

34.9 ——Report of the Committee on the Metric System of Weights and Measures; Mar., 1884; Oct., '84; Mar., '86; Mar., '88; Apr., '94. N. Y., 1884-94. 5 v., il., 9 x 6, pap.

34.8 ——Report of the Standing Committee on the Metric System of Weights and Measures, and accompanying letters, presented at the annual meeting, Mar. 19th, 1879. no place, 1879. 11 pp., il., 10 x 6, pap. no title-page.

62.1 **BROOKLYN ENGINEERS' CLUB.** Proceedings, constitution and by-laws, with list of members; 1897. Brooklyn, 1898. 1 v., il., 9 x 6, cl.

154.1 **BROTHERHOOD OF LOCOMOTIVE ENGINEERS.** Minutes of the grand international division at their annual session; 1866. Rochester, 1866. 1 v., 9 x 6, pap.

28.1 **CALIFORNIA ACADEMY OF SCIENCES.** Bulletins; 1884-87 (v. 1-2). San Fran., 1884-87. 2 v., 9 x 6, unbound.

28.2 ——Memoirs; 1888 (v. 2, Nos. 1-2). San Fran., 1888. 1 v., 12 x 10, unbound.

28.3 ——Occasional papers; 1890-99 (v. 1-6). San Fran., 1890-99. 6 v., 10 x 6, pap.

28.4 ——Proceedings: 1873-96 (ser. 1, v. 5-7; ser. 2, v. 1-6). Note: v. 7, Pt. 2 wanting. San Fran., 1873-96. 12 v. in 9, il., 10 x 7, pap.

54.1 **CENTRAL RAILWAY CLUB.** Proceedings of the meeting; 1898-99. Note: Proceedings, Sept., 1897 wanting. Buffalo, 1898-99. 7 v., 9 x 6, unbound.

131.2 **CHICAGO CITIZENS' ASSOCIATION.** Constitution, by-laws and list of members; 1885, '90, '98. Cleveland, 1885-98. 3 v., 7 x 4, cl., pap.

91.2 ——Lakes and Gulf waterway: A brief. L. E. Cooley. Chic., 1898. 85 pp., il., 7 x 4, pap.

131.4 ——Proceedings of the Civil Engineers Convention. no place, 1885. 8 pp., 9 x 6, pap.

91.1 ——Report of the Main Drainage Committee; 1880, '85. Chic., 1880-85. 2 v., 9 x 6, pap.

CIVIL ENGINEERS' CLUB OF THE NORTHWEST. See Western Society of Engineers.

162.1 **COLORADO SCIENTIFIC SOCIETY.** Artesian wells of Denver: A report by a special committee of the Society. Denver, 1884. 41 pp., 9 x 6, pap.

52.1 **CONNECTICUT CIVIL ENGINEERS AND SURVEYORS ASSOCIATION.** Proceedings of the meetings; 1885-1900. Note: 1897-99 wanting. New London, 1885-1900. 15 v., il., 9 x 6, pap.

129.2 **DENVER SOCIETY OF CIVIL ENGINEERS.** List of members, constitution and by-laws, and President's annual address; 1892, '90, '93. no place, 1892-93. 3 v., 8 x 5, pap.

129.1 ——Transactions; 1890-91 (v. 1-4). Denver, 1890-92. 4 v. in 3, il., 9 x 6, pap.

89.1 **DETROIT ENGINEERING SOCIETY.** Constitution, by-laws and list of members. no place, 1899. 1 v., 5 x 2, ro.

Sa3 UNITED STATES—(*Continued*).

107.1 **DEUTSCH-AMERIKANISCHER TECHNIKER-VERBAND.** Jahresbericht. Statuten und Mitgliederliste; 1895-96, '99. N. Y., 1896-99. 2 v., 9 x 6, pap.

107.2 ——Mitteilungen (bi-monthly); Oct., 1898-Aug., '99 (v. 4). N. Y., 1898-99. 1 v., il., 9 x 6, unbound.

8.2 **ENGINEERING ASSOCIATION OF THE SOUTH.** Proceedings; 1898-99 (v. 9-10). Note: v. 9. Nos. 1, 3, 7 (Feb., Apr., Dec., 1898) wanting. Nashville, 1898-99. 2 v., il., pl., 9 x 6, unbound.

8.1 ——Transactions; 1889-98. Nashville, 1891-98. 8 v., pl., 9 x 6, pap.

130.2 **ENGINEERING ASSOCIATION OF THE SOUTHWEST.** Constitution. Nashville, no date. 15 pp., 7 x 5, pap.

42.1 **ENGINEERING SOCIETY OF COLUMBIA UNIVERSITY.** Transactions; 1893-98. N. Y., 1894-98. 3 v., il., 10 x 7, cl.

95.1 **ENGINEERS AND ARCHITECTS CLUB OF LOUISVILLE.** Selected papers; 1896. no place, 1896. 1 v., 9 x 6, pap.

134.2 **ENGINEERS AND SURVEYORS OF THE STATE OF PENNSYLVANIA.** Proceedings of the convention; 1880. Phil., 1881. 1 v., 9 x 6, pap.

137.3 **ENGINEERS' CLUB OF CINCINNATI.** Address of the President at the annual meeting; 1888-89. Cin., 1888-89. 2 v., 9 x 6, pap.

137.2 ——Secretary's report; 1896-99. no place, 1896-99. 4 v., 9 x 6, pap. no title-page.

136.3 **ENGINEERS' CLUB OF KANSAS CITY.** List of members; 1887-90. Kansas City, 1887-90. 4 v., 8 x 5, pap.

9.3 **ENGINEERS' CLUB OF PHILADELPHIA.** Directory, constitution and by-laws; containing officers, committees, members' names and addresses, etc.; 1895-1900. Note: 1896 wanting. Phil., 1895-1900. 5 v., 5 x 3, ro.

9.2 ——Objects of interest to engineers and others, in and about Philadelphia. Phil., 1893. 109 pp., maps, 7 x 4, cl.

9.1 ——Proceedings (quarterly); 1879-98 (v. 1-15). Phil., 1880-98. 15 v., il., 9 x 6, ½ mor.

9.4 ——Report of the Committee on the Metric System of Weights and Measures, Apr., 1878. Phil., 1878. 3 pp., 9 x 6, pap.

43.6 **ENGINEERS' CLUB OF ST. LOUIS.** Annual address, by the retiring President; 1898. no place, 1898. 1 v., 9 x 6, pap.

43.2 ——Bulletin: Annual reports of officers and committees, addresses at the annual dinner, constitution, by-laws, list of officers and members, and programme; 1870, '89, '90, '97-98. St. Louis, 1870-98. 5 v., 9 x 6, 7 x 4, pap.

43.8 ——Local engineering data for St. Louis. St. Louis, 1898. 52 pp., tab., 7 x 5, cl.

43.7 ——Proposed change of plan in the execution of all river and harbor improvements: The organization of a civil bureau of harbor and waterways: arguments on the Cullom-Breckinridge Bill. St. Louis, 1898. 19 pp., 9 x 6, pap.

43.1 ——Transactions; Mar., 1871, Apr., '74. no place, 1871-74. 2 v., il., 9 x 6, pap. no title-page.

47.1 **ENGINEERS' SOCIETY OF WESTERN NEW YORK.** Transactions; 1895-96 (v. 1, Nos. 1-8). Note: No. 3 wanting. Buffalo, 1895-97. 1 v., il., 9 x 6, unbound.

10.2 **ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.** Charter, by-laws and list of members; 1884, '88. Pittsburg, 1884-88. 2 v., 9 x 6, pap.

10.4 ——Final report of Committee on Roads, with draft of proposed road act. Pittsburg, 1891. 30 pp., 9 x 6, pap.

10.3 ——Index to the library; prepared by the Librarian under direction of the Committee on Library, 1882-83. Pittsburg, 1883. 74 pp., 9 x 6, pap.

10.1 ——Proceedings; 1880-99 (v. 1-15). Note: v. 2-3 (July, 1882-87) wanting. Pittsburg, 1882-99. 13 v., il., 9 x 6, unbound.

10.5 ——Report of the Committee on Natural Gas. no place, 1884. pp. 331-359, 10 x 7, pap. no title-page.

70.2 **FIELD COLUMBIAN MUSEUM.** Annual report of the Director to the Board of Trustees; Sept., 1894-99. (Report Ser.) Chic., 1895-99. 5 v., il., 9 x 6, pap.

70.1 ——Historical and descriptive account of the Museum. (Pub. 1, v. 1, No. 1.) Chic., 1894. 90 pp., il., pl., 9 x 6, pap.

FINE ARTS FEDERATION OF NEW YORK. See New York Fine Arts Federation.

11.7 **FRANKLIN INSTITUTE.** Competitive tests of dynamo-electric machines: Report of a special committee, appointed by the President of the Franklin Institute. Phil., 1885. 65 pp., il., 8 tab., 9 x 6, pap.

11.4 ——General report of the Chairman of the Committee on Exhibitions. (International Electrical Exhibition, 1884.) Phil., 1885. 54 pp., 6 pl., 9 x 6, pap.

11.2 ——Index to the Journal of the Franklin Institute, including the Franklin Journal, for the one hundred and twenty volumes from 1826 to 1885; arranged according to subjects and authors. Phil., 1890. 416 pp., 9 x 6, ¾ sh.

Sa3 UNITED STATES—(*Continued*).

11.1 ——Journal; 1826–June, '99 (v. 1–147). Note: Title of v. 1–4 reads "Franklin Journal"; v. 5–30 called New Ser.; v. 31–130 called Third Ser. Since 1891 the volumes have been numbered consecutively, beginning with v. 1 in 1826. Prior to 1891 they were numbered consecutively under each series. Phil., 1826–99. 147 v. in 89, il., pl., 9 x 6, ¾ sh., mor.

11.6 ——On the efficiency and duration of incandescent electric lamps: Report of a special committee, appointed by the President. Phil., 1885. 127 pp., il., 17 tab., 9 x 6, pap.

11.3 ——Report relative to the metric system of weights and measures. Phil., 1876. 14 pp., 9 x 6, pap.

11.5 ——Subject catalogue of the Memorial Library of the International Electrical Exhibition, Sept.–Oct., 1884; comp. by E. Hilterbrand. Phil., 1885. 165 pp., il., 9 x 6, pap.

GENERAL RAILROAD ASSOCIATION. Journal of the proceedings of the convention held at Springfield, Aug. 24th and 25th, 1852. New Haven, 1852. 24 pp., 9 x 6, b. p. Ad-4, p. 67.

——Same; Nov. 23d, 1854. Newark, 1855. 32 pp., 9 x 6, b. p. Af-5, p. 173.

GENERAL RAILROAD ASSOCIATION OF THE EASTERN, MIDDLE AND Western States. Proceedings; also of the General Ticket Agents' Association, convened at the Monongahela House, Pittsburg, Mar. 13th, 1855. Phil., 1855. 24 pp., 8 x 5, b. p. Ae-1, p. 783.

GENERAL TIME CONVENTION. See American Railway Association.

12.1 **ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.** Annual report; being the proceedings of the Society at its annual meeting; 1st–14th; 1886–99. Peoria, 1886–99. 14 v., 9 x 6, pap.

49.1 **INDIANA ENGINEERING SOCIETY.** Proceedings of the annual meeting; 3d–19th; 1883–99. Note: From 1881–1886 called "Association of County Surveyors and Civil Engineers of the State of Indiana;" from 1886 to 1891, "Indiana Society of Civil Engineers and Surveyors." Nos. 7, 13, 16 (1887, '93, '96) wanting. Indianapolis, 1883–99. 13 v., il., 9 x 6, pap.

86.1 **INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.** Bulletin (American Section); 4th–18th; Sept., 1899–May, 1900. no place, 1899–1900. 15 v., 9 x 6, pap. no title-page.

86.2 ——History, laws, committees and list of members; 1899. Phil., 1899. 1 v., 9 x 6, pap.

157.3 **INTERNATIONAL INSTITUTE FOR PRESERVING AND PERFECTING ANGLO-**Saxon Weights and Measures. Argument by Committee of the New York and New Jersey Branch. no place, 1884. 2 pp., 11 x 8, pap. no title-page.

157.4 ——Minutes of the meeting of the Ohio Branch. Cleveland, 1881. newspaper slips.

157.2 ——Prospectus. no place, no date. 4 pp., 8 x 5, pap. no title-page.

157.5 ——Vertical and cross-sections of the Great Pyramid of Jeezeh. Cleveland, 1881. pl., 42 x 27, cl.

157.1 ——What shall be the prime meridian for the world? Report of Committee on Standard Time and Prime Meridian. Cleveland, 1884. 56 pp., 9 x 6, pap.

148.2a **INTERNATIONAL RAILWAY CONGRESS.** Bulletin; 1898–99 (v. 12–13). Note: v. 12, Nos. 1–3 (Jan.–Mar., 1898) wanting. Brussels, 1898–99. 2 v., 10 x 7, unbound.

148.2 ——Same. French edition; 1887–95 (v. 1–9). Note: Incomplete. Bruxelles, 1887–95. 9 v., 10 x 7, unbound.

148.1 ——Journal; June 25th–July, 1895; (Nos. 1–11.) Note: Printed in English and French, in parallel columns. Lond., 1895. 11 v., 13 x 8, pap.

59.1 **INTERNATIONAL ROAD-MASTERS' ASSOCIATION.** Proceedings of the annual meeting; 2d; 1880. N. Y., 1880. 1 v., 9 x 5, pap.

53.1 **IOWA CIVIL ENGINEERS' AND SURVEYORS' SOCIETY.** Proceedings at the annual meeting; 1887–96. Note: Proceedings, 1891 wanting. Glenwood, 1887–96. 8 v., il., 9 x 6, pap.

151.1 **JOINT EXECUTIVE COMMITTEE.** Proceedings; Dec. 18th, 1878 to Dec. 18th, '80. Note: Committee composed of representatives of railroad companies and organized for the purpose of regulating railroad rates. N. Y., 1880. 2 v., 9 x 6, ¾ skiv.

147.1 **KANSAS IRRIGATION ASSOCIATION.** Proceedings: Annual convention; 1893–94. Topeka, 1893–94. 2 v., 9 x 6, pap.

79.1 **KANSAS STATE HISTORICAL SOCIETY.** Publications; embracing biographical sketches and the executive minutes of Governors Reeder and Shannon, 1854–56; addresses of Governors Stanton and Denver at Bismark, 1884; and proceedings of the Kansas Quarter-centennial Celebration at Topeka, Jan. 29th, 1886. Topeka, 1886. 302 pp., 9 x 6, cl.

85.1 **LAKE MOHONK CONFERENCE ON INTERNATIONAL ARBITRATION.** Report of the annual meeting; 4th–5th. no place, 1898–99. 2 v., 9 x 6, pap.

104.1 **LYCEUM OF NATURAL HISTORY IN THE CITY OF NEW YORK.** constitution and by-laws; with a list of the members, etc. N. Y. 9 x 6, pap.

Sa3 UNITED STATES—(*Continued*).

146.4 **MASTER CAR BUILDERS' ASSOCIATION.** Circular of inquiry from the Secretary, with reference to the gauge of track, location of guard rails, etc. N. Y., 1884. 4 pp., il., 11 x 9, pap.

146.3 ——Report of the proceedings of an adjourned meeting, held Oct. 10th, 11th and 12th, 1882. N. Y., 1883. 111 + 4 pp., pl., 9 x 6, pap.

146.1 ——Report of the proceedings of the annual convention; 1st-9th, 11th-34th; 1867-75, '77-1900. N. Y., 1873-1900. 33 v. in 28, 6 x 4, pap.

MASTER CAR-BUILDERS' CLUB. See New York Railroad Club.

78.1 **MECHANICS' INSTITUTE, SAN FRANCISCO, CAL.** Report of the industrial exhibition; 11th-18th; 1876-83. Note: Nos. 14-17 (1879-82) wanting. San Fran., 1876-84. 4 v., il., 9 x 6, pap.

168.1 **MEDICAL SOCIETY OF THE STATE OF NEW YORK.** Defective drainage: Report of the Committee on Hygiene. no place, 1874. pp. 529-569, maps, 9 x 5, b. p.

51.1 **MICHIGAN ENGINEERING SOCIETY.** Michigan Engineers' Annual, containing the proceedings of the Society; 1892-96. Kalamazoo, 1892-96. 14 v., 9 x 6, pap.

139.1 **MICHIGAN SCHOOLMASTERS' CLUB.** Proceedings at the meeting; 32d-34th; 1898-1900. Ann Arbor, 1899-1900. 3 v., 10 x 7, pap.

139.2 ——Proceedings at the thirty-second meeting: Report of the Physics Conference. Ann Arbor, 1899. 54 pp., il., tab., 10 x 7, pap.

13.1 **MILITARY SERVICE INSTITUTION OF THE UNITED STATES.** Journal (bimonthly); 1880-May, 1900 (v. 1-26). Note: Published quarterly prior to 1899. v. 1, No. 1; v. 4, No. 16 wanting. Governor's Island, 1880-99. 26 v., 9 x 6, unbound.

13.2 ——Official memoranda; 1882-83. Note: Contains annual report of the Executive Council and list of members. Governor's Island, 1882-83. 2 v., 9 x 6, pap.

97.1 **MISSOURI ASSOCIATION OF SURVEYORS AND CIVIL ENGINEERS.** Proceedings at the annual meeting; 5th-6th; 1885-86. Columbia, 1885-86. 2 v., il., 9 x 6, pap.

135.3 **MONTANA SOCIETY OF ENGINEERS.** Constitution and by-laws; 1887, '91, '97. Helena, 1887-97. 3 v., 6 x 3, pap.

135.4 ——List of members; 1889, '99. Helena, 1889-99. 2 v., 9 x 6, pap.

135.2 ——Proceedings of the annual meeting; 12th; 1899. no place, 1899. 1 v., il., 9 x 6, pap.

135.5 ——The standing of engineering among the professions, by J. S. Keerl, retiring president. no place, 1896. 4 pp., 9 x 6, pap.

MUNICIPAL ART SOCIETY OF NEW YORK. See New York Municipal Art Society.

NATIONAL ACADEMY OF DESIGN. Annual report and list of members. 1899. (See Sa3-80.1.)

31.1 **NATIONAL ACADEMY OF SCIENCES.** Biographical memoirs; v. 3. Wash., 1895. 1 v., 10 x 6, pap.

31.2 ——Memoirs; v. 1-6. Wash., 1866-93. 6 v. in 8, 12 x 10, pap., cl.

31.3 ——Proceedings; 1884-94 (v. 1, Pt. 3). Wash., 1895. 1 v., 9 x 6, pap.

82.2 **NATIONAL ASSOCIATION OF BAR IRON MANUFACTURERS.** Argument of the Association against any reduction of present duties on iron; read before the Senate Committee on Finance. Phil., 1872. 10 pp., 9 x 6, pap.

82.1 ——Quarterly report; 1st; Jan., 1872. Phil., 1872. 1 v., 9 x 6, pap.

165.1 **NATIONAL ASSOCIATION OF BUILDERS OF THE UNITED STATES OF** America. Official report: Annual convention; 2d-6th; 1888-92. Bost., 1888-90; N. Y., 1891-92. 5 v., 9 x 6, pap.

77.1 **NATIONAL ASSOCIATION OF FIRE ENGINEERS.** Proceedings of the annual convention; 17th; 1889. Cin., 1889. 1 v., 9 x 6, pap.

NATIONAL ASSOCIATION OF INVENTORS. Congressional supplement of the *Eureka;* or, the Journal of the National Association of Inventors, Jan., 1847. Note: Memorial to Congress praying a change in the patent laws. no place, 1847. 8 pp., 1 pl., 12 x 9, b. p. no title-page. Da-65, p. 325.

161.1 **NATIONAL ASSOCIATION OF MANUFACTURERS.** Report of a special committee on the metric system of weights and measures. Bost., 1898. newspaper slip.

61.1 **NATIONAL BRICK MANUFACTURERS' ASSOCIATION OF THE UNITED** States of America. Report of the Commission appointed to investigate the subject of paving brick tests and to recommend standard methods for their conduct. Indianapolis, 1897. 110 pp., il., 9 x 6, pap.

160.1 **NATIONAL CIVIL SERVICE REFORM LEAGUE.** Civil service reform in the national service, 1889-1891: Six reports of the Special Investigating Committee. Bost., 1891. 86 pp., 8 x 5, pap.

Sa3 UNITED STATES—(*Continued*).

64.1 **NATIONAL CONFERENCE OF CHARITIES AND CORRECTION.** Proceedings at the annual session; 20th, 22d-23d; 1893, '95-96. Bost., 1893-96. 3 v., il., 9 x 6, cl.

138.2 **NATIONAL INSTITUTE OF LETTERS, ARTS AND SCIENCES.** Constitution; 1868. N. Y., 1868. 1 v., 9 x 6, pap.

168.1 **NATIONAL RIFLE ASSOCIATION.** Annual report; 2d; 1874. N. Y., 1874. 1 v., 9 x 6, pap.

NATIONAL SCULPTURE SOCIETY. Annual report and list of members. 1899. (See Sa3-80.1.)

NATIONAL SOCIETY OF MURAL PAINTERS. Annual report and list of members. 1899. (See Sa3-80.1.)

99.1 **NEBRASKA ASSOCIATION OF ENGINEERS AND SURVEYORS.** Proceedings at the annual meeting; 1st-3d; 1884-86. Omaha, 1885-86. 3 v. in 2, il., 9 x 6, pap.

142.1 **NEW ENGLAND ASSOCIATION OF RAILROAD SUPERINTENDENTS.** Report of the trial of locomotive engines, made upon 1st and 2d Oct., 1851. Bost., 1852. 19 pp., tab., 9 x 6, pap.

——Reports and other papers of the Association, from the commencement of the Society to Jan. 1st, 1850. Bost., 1850. 48 pp., 8 x 5, b. p. Aj-36, p. 405.

48.2 **NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.** Constitution, by-laws and list of members; 1895. Waltham, 1895. 1 v., 10 x 7, pap.

48.1 ——Transactions; 1880-Apr., 1900 (Nos. 28-68). Note: Nos. 29-47 (Oct., 1880, 1881-89) wanting. Waltham, 1880-1900. 22 v., il., 10 x 7, pap.

158.1 **NEW ENGLAND FREE TRADE LEAGUE.** Debate on equitable protection between David Lubin of Philadelphia and John E. Russell of Leicester, Mass., Nov. 6th, 1897. no place, no date. 33 pp., 9 x 6, pap.

156.1 **NEW ENGLAND METEOROLOGICAL SOCIETY.** Bulletin; Nov.-Dec., 1884; Feb., Apr., June-Dec., '85; Jan.-Mar., '86 (Nos. 1-2, 4, 6, 8-17). no place, 1884-86. 3 v., maps, 9 x 6, unbound. no title-page.

156.2 ——Instructions for rainfall observers. (Circular No. 3.) Providence, 1884. unpaged, 9 x 6, pap. no title-page.

56.1 **NEW ENGLAND RAILROAD CLUB.** Proceedings of the meeting; Oct., 1894-Nov., '99. Note: Nov., Dec., 1894; Jan.-Mar., May, Sept., '95; Nov., '96 wanting. Bost., 1894-99. 6 v., il., 9 x 6, unbound.

58.1 **NEW ENGLAND ROADMASTERS' ASSOCIATION.** Proceedings of the annual convention; 1st-16th; 1883-98. Note: Nos. 2, 5, 9, 14 (1884, '87, '91, '96) wanting. Northampton, 1883-99. 12 v., 9 x 6, pap.

14.2 **NEW ENGLAND WATER-WORKS ASSOCIATION.** Eighteenth annual convention. Note: Souvenir of the Convention held at Syracuse. Syracuse, 1899. unpaged, il., por., 6 x 9, pap.

14.1 ——Journal (quarterly); 1886-99 (v. 1-13). New London, 1886-99. 13 v., il., 9 x 6, unbound.

14.3 ——Transactions: 1883-85. Newton, 1883-86. 3 v., il., 9 x 6, pap.

96.1 **NEW JERSEY SANITARY ASSOCIATION.** Proceedings of the annual meeting; 21st, 25th; 1895, '99. New Brunswick, 1896-1900. 2 v., 9 x 6, pap.

119.1 **NEW YORK ARCHITECTURAL LEAGUE.** Officers, committees, members, constitution and by-laws; 1891-92. Note: For Annual report and list of members, 1899, see Sa3-80.1. N. Y., 1892. 1 v., 8 x 5, bds.

75.1 **NEW YORK ASSOCIATION FOR IMPROVING THE CONDITION OF THE POOR.** Annual report; 36th; 1879. N. Y., 1879. 1 v., il., 9 x 6, pap.

NEW YORK FINE ARTS FEDERATION. Annual report and list of members. 1899. (See Sa3-80.1.)

101.1 **NEW YORK HISTORICAL SOCIETY.** Charter and by-laws. N. Y., 1881. 1 v., 9 x 6, pap.

145.1 **NEW YORK LIBRARY CLUB.** Union list of periodicals currently received by the New York and Brooklyn libraries; ed. at Columbia College Library. N. Y., 1887. 58 pp., 10 x 7, cl.

115.1 **NEW YORK MATHEMATICAL SOCIETY.** Organization: Constitution, by-laws and list of members; 1891. N. Y., 1891. 1 v., 9 x 5, pap.

NEW YORK MUNICIPAL ART SOCIETY. Annual report and list of members. 1899. (See Sa3-80.1.)

57.1 **NEW YORK RAILROAD CLUB.** Proceedings; Nov., 1888; Nov., '93; Jan.-Mar., Sept.-Oct., '94; Mar.-Apr., Sept.-Dec., '95; Feb., '96-Dec., '99. N. Y., 1888-99. 8 v., il., 9 x 6, unbound.

94.1 **NEW YORK SOCIETY OF AMATEUR PHOTOGRAPHERS.** Proceedings (monthly): Apr.-Sept., 1886. N. Y., 1886. 1 v., 10 x 6, unbound.

117.1 **NEW YORK SOCIETY OF PRACTICAL ENGINEERING.** Constitution and by-laws. N. Y., 1870. 1 v., 6 x 4, cl.

67.1 **NEW YORK STATE AGRICULTURAL SOCIETY.** Transactions; together with an abstract of the proceedings of the county agricultural societies; 1843, '50-53, '55, '58, '61 (v. 3, 10-13, 15, 18, 21). Albany, 1844-62. 8 v., il., 9 x 6, cl.

Sa3 UNITED STATES—(*Continued*).

68.1 **NEW YORK STATE INSTITUTION OF CIVIL ENGINEERS.** Transactions; 1849 (v. 1, No. 2). Albany, 1849. 1 v., il., 12 x 9, pap.

169.1 **NEW YORK STATE—MUSEUM.** Bulletin; Nos. 2, 10, 17; 1888, '90, '97. Albany, 1888-97. 3 v., 10 x 7, pap.

143.1 **NEW YORK WEST SIDE ASSOCIATION.** Proceedings; 1870-71 (Nos. 1-6); 1871-72 (No. 1); 1872-73 (No. 1); 1873-74 (No. 2). N. Y., 1871-74. 9 v. in 4, 9 x 6, cl., pap.

140.1 **NORTHWEST RAILWAY CLUB.** Official proceedings; Oct., 1896-Jan., 1900 (v. 2, No. 4-v. 5, No. 5). Note: v. 2, Nos. 7-10 (Jan.-Apr., 1897); v. 3, No. 5 (Feb., 1898); v. 5, No. 4 (Dec., 1899) wanting. St. Paul, 1896-1900. 4 v., il., 9 x 6, unbound.

35.1 **OHIO INSTITUTE OF MINING ENGINEERS.** Ohio Mining Journal (quarterly); 1882-88 (v. 1-6). Note: Since 1885 publication has been irregular; no volume 4 published. v. 5, No. 4 (Aug., 1887) wanting. Columbus, 1882-88. 5 v., 9 x 6, unbound.

36.1 **OHIO SOCIETY OF SURVEYORS AND CIVIL ENGINEERS.** Annual report; being the transactions of the Society at its annual meeting; 1st-21st; 1880-1900. Note: Reports Nos. 18-20 (1897-99) wanting. Columbus, 1880-1900. 18 v., il., 9 x 6, pap.

36.2 ——Charter, constitution and by-laws; with a list of members, together with their place of residence and occupation. Columbus, 1885. 1 v., 9 x 6, pap.

74.1 **OXFORD CLUB, LYNN, MASS.** Souvenir; descriptive of the social, religious and industrial characteristics of Lynn. Lynn, 1892. 64 pp., il., pl., 9 x 6, pap.

72.1 **PENNSYLVANIA HISTORICAL SOCIETY.** Address delivered at the annual meeting; 1869. Phil., 1869. 1 v., 9 x 6, pap.

166.1 **PHILADELPHIA CITIZENS' MUNICIPAL ASSOCIATION.** Annual report, with list of members, officers and committees; 9th-13th; Apr., 1894-99. Note: Report No. 10 (Apr., 1895-96) wanting. Phil., 1895-99. 4 v., 9 x 6, pap.

60.1 **PHILADELPHIA MUSEUMS.** Prospectus. no place, 1898. 16 pp., 9 x 6, pap.

60.3 ——Republic of Costa Rica; by Gustavo Niederlein. Phil., no date. 127 pp., map, 9 x 6, pap.

60.2 ——Republic of Guatemala; by Gustavo Niederlein. Phil., 1898. 68 pp., 9 x 6, pap.

PI ETA SCIENTIFIC SOCIETY, RENSSELAER POLYTECHNIC INSTITUTE. See Rensselaer Society of Engineers.

26.1 **PIONEER LAWMAKERS' ASSOCIATION OF IOWA.** Proceedings; 1896, '98. Des Moines, 1897-99. 2 v., 9 x 6, pap.

108.1 **POLYTECHNIC SOCIETY OF UTAH.** Constitution, by-laws and list of members. Salt Lake, 1890. 1 v., 9 x 5, pap.

93.1 **PURDUE SOCIETY OF CIVIL ENGINEERING.** Proceedings; 1897. Lafayette, 1897. 1 v., il., 9 x 6, pap.

152.1 **RAILROAD CONDUCTORS' LIFE INSURANCE ASSOCIATION OF THE** United States and Canadas. Proceedings at the international convention; 8th, 12th; 1875, '79. Columbus, 1875-79. 2 v., 6 x 4, pap.

149.3 **RAILWAY ASSOCIATION OF AMERICA.** Journal; May-Oct., 1874 (Nos. 1-3). St. Louis, 1874. 2 v., 9 x 6, pap.

149.4 ——Memorandum on a proposed railway clearing house for the United States and Canada. St. Louis, 1874. 4 pp., 9 x 6, pap.

149.1 ——Revised constitution, June, 1874. no place, no date. 3 pp., 14 x 8, pap. no title-page.

149.2 ——Transactions at the meeting; 3d, 5th; 1873, '75. St. Louis, 1873-75. 2 v., 9 x 6, pap.

113.3 **RENSSELAER SOCIETY OF ENGINEERS.** Constitution and by-laws. Note: Formerly called Pi Eta Scientific Society. Albany, 1880. 1 v., 8 x 5, pap.

113.2 ——List of members. Troy, 1892. 1 v., 9 x 6, pap.

113.4 ——Papers read before the Society; 1876, '79-80, '81-82. Troy, 1876-82. 3 v., il., 9 x 6, pap.

113.1 ——Selected papers; 1884-94 (v. 1; v. 2, Nos. 1-3). Troy, 1884-94. 2 v., il., 9 x 6, unbound.

40.1 **ROADMASTERS' ASSOCIATION OF AMERICA.** Proceedings of the annual convention; 1st-17th; 1883-99. Note: Proceedings Nos. 3, 4, 9 (1885, '86, '91) wanting. Sterling, 1883-99. 14 v. in 13, il., 9 x 6, pap.

110.2 **ST. LOUIS ACADEMY OF SCIENCE.** Constitution, by-laws and list of members. no place, 1899. 1 v., 9 x 6, pap.

——Inaugural address before the St. Louis Academy of Science by the President, James B. Eads, Jan. 15th, 1872. Wash., 1874. 29 pp., 9 x 6, b. p. Cb-422, p. 15.

110.1 ——Transactions; Jan., 1898 (v. 8, No. 1). no place, 1898. 1 v., il., 10 x 6, pap.

141.1 **ST. LOUIS RAILWAY CLUB.** Official proceedings; Nov., 1897-99 (v. 2, No. 4-v. 4, No. 7). Note: v. 3, No. 9 (Feb., 1899) wanting. St. Louis, 1897-99. 3 v., 9 x 6, unbound.

112.1 **SCIENCE ASSOCIATION OF NEW YORK.** Constitution, by-laws and list of members. N. Y., 1889. 1 v., 6 x 3, pap.

Sa3 UNITED STATES—(*Continued*).

127.1 **SCIENTIFIC ALLIANCE OF NEW YORK.** Addresses delivered at the joint meeting; 1st; 1892. N. Y., 1893. 1 v., 9 x 6, pap.

76.1 **SILK ASSOCIATION OF AMERICA.** Annual report, with preamble and by-laws and catalogue of members and subscribers; 3d; 1875. N. Y., 1875. 1 v., 9 x 6, pap.

19.1 **SMITHSONIAN INSTITUTION.** Annual report of the Board of Regents showing the operations, expenditures and condition of the Institution for the year ending June 30th, 1854–June 30th, 1897. Note: Contains reports of the United States National Museum. Reports, 1855–56, '60, '80 wanting. Wash., 1855–99. 40 v. in 54, il., 9 x 6, cl.

19.2 ——Bureau of Ethnology: Catalogue of prehistoric works east of the Rocky Mountains; by Cyrus Thomas. Wash., 1891. 246 pp., 17 pl., 10 x 6, pap.

19.6 ——Catalogue of scientific and technical periodicals, 1665 to 1882; together with chronological tables and a library check-list; by H. C. Bolton. (Smithsonian Miscellaneous Collections.) Wash., 1885. 10 + 773 pp., 10 x 6, pap.

19.6a ——Same, 1665–1895. ed. 2. Wash., 1897. 2 v., 10 x 6, pap.

19.8 ——Exploration of the Colorado River of the West and its tributaries; explored in 1869, '70, '71 and '72, under the direction of the Secretary. Wash., 1875. 291 pp., pl., 12 x 9, cl.

19.3 ——List of foreign correspondents. Jan., 1882. (Smithsonian Miscellaneous Collections.) Wash., 1882. 1 v., 10 x 6, pap.

19.5 ——Same: Additions and corrections to, July, 1888; by George H. Boehmer. Wash., 1888. 147 pp., 9 x 6, pap.

19.4 ——Same: Systematic arrangement of, July, 1888; by George H. Boehmer. Wash., 1888. 204 pp., 9 x 6, pap.

19.7 ——Tables and results of the precipitation, in rain and snow, in the United States, and at some stations in adjacent parts of North America, and in Central and South America; by Charles A. Schott. Wash., 1872. 3 + 173 pp., il., 5 pl., maps, 14 x 10, bds.

19.9 ——Tables, distribution and variations of the atmospheric temperature in the United States, and some adjacent parts of America; collected by the Smithsonian Institution, and discussed by Charles A. Schott. (Smithsonian Contributions to Knowledge.) Wash., 1876. 15 + 345 pp., pl., map, 14 x 10, bds.

19.10 ——Winds of the globe; or, the Laws of atmospheric circulation over the surface of the earth; by James Henry Coffin; the tables completed, on the author's decease, and maps drawn, by Selden Jennings Coffin; with a discussion and analysis of the tables and charts, by Alexander Woeikof. (Smithsonian Contributions to Knowledge.) Wash., 1875. 25 + 756 pp., il., 28 pl., 14 x 10, bds.

73.2 **SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.** Presidential address. no place, 1896. 1 v., 9 x 6, pap.

73.1 ——Proceedings; 1893 (v. 1). Columbia, 1894. 1 v., 9 x 6, cl.

SOCIETY OF AMERICAN ARTISTS. Annual report and list of members. 1899. (See Sa3–80.1.)

69.1 **SOCIETY OF ARTS, MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** Abstract of the proceedings; 1879–91. Note: Proceedings, 1882–83, '83–84 wanting. Bost., 1880-91. 10 v., il., 9 x 6, pap.

69.2 ——In memory of William Barton Rogers, LL. D., late President of the Society. Bost., 1882. 39 pp., por., 9 x 6, pap.

124.1 **SOCIETY OF ENGINEERS AND ASSOCIATES.** Constitution and by-laws; 1874–75. N. Y., 1875. 1 v., 6 x 4, cl.

39.1 **SOCIETY OF ENGINEERS IN THE UNIVERSITY OF MINNESOTA.** Year book; 1892–93. Minneapolis, 1893. 1 v., il., 10 x 7, pap.

164.1 **SOCIETY OF GAS LIGHTING.** Transactions; 1877, '83. Newport, 1878–84. 2 v., 9 x 6, pap.

15.2 **SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.** Constitution and by-laws and list of members. N. Y., 1897–1900. 4 v., 9 x 6, 5 x 4, pap., skiv.

15.1 ——Transactions; 1893–99 (v. 1–7). Wash., 1893–99. 7 v., il., 11 x 8, cl.

133.2 **SOCIETY OF RIVER AND HARBOR ENGINEERS.** Constitution and by-laws. no place, no date. 11 pp., 9 x 6, pap. no title-page.

55.1 **SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.** Constitution and proceedings; Nov., 1893–Jan., '99. Note: Jan.–Aug., 1893; Jan., Aug., '94; Jan., '95; Nov., '96; Aug., '97 wanting. Atlanta, 1893–99. 7 v., il., 9 x 6, unbound.

SOUTHERN RAILWAY TIME CONVENTION. See American Railway Association.

133.3 **SOUTHERN SOCIETY OF CIVIL ENGINEERS.** Constitution and by-laws. Jacksonville, 1885. 1 v., 6 x 4, pap.

133.2 ——Proceedings: Annual reports, with professional papers; 1885–86 (v. 3). Jacksonville, 1887. 1 v., 8 x 5, pap.

44.1 **TECHNICAL SOCIETY OF THE PACIFIC COAST.** Transactions; 1884–96. Note: Volume for 1894 wanting. San Fran., 1884–96. 12 v. in 7, il., 9 x 6, ½ mor.

Sa3 UNITED STATES—(*Continued*).

98.1 **TECHNISCHER VEREIN VON NEW YORK.** Jahresbericht; 1880–81. N. Y., 1882. 1 v., 9 x 6, pap.

63.1 **TRAVELING ENGINEERS' ASSOCIATION.** Proceedings of the annual convention; 5th; 1897. Elkhart, 1897. 1 v., il., 9 x 6, pap.

20.2 **UNITED STATES—NATIONAL MUSEUM.** Bulletin; Nos. 1-2, 5, 39-46, 48. Wash., 1875-95. 12 v., 9 x 6, 10 x 6, pap.

20.1 ——Proceedings; 1891-94 (v. 14-17). Wash., 1892-95. 4 v., il., pl., 9 x 6, cl.

20.3 ——Special bulletin; No. 1. Wash., 1892. 1 v., pl., 18 x 10, pap.

16.1 **UNITED STATES NAVAL INSTITUTE.** Proceedings (quarterly); 1880-99 (v. 6-25). Annapolis, 1880-99. 20 v., il., 9 x 6, unbound.

144.1 **UNITED STATES TRADE MARK ASSOCIATION.** Bulletin; Sept., 1898 (v. 5, No. 3). N. Y., 1898. 1 v., 9 x 6, pap.

103.1 **WASHINGTON ASSOCIATION OF ENGINEERS AND ARCHITECTS.** Constitution; 1874. no place, no date. 1 v., 9 x 6, pap.

128.2 **WEST VIRGINIA SOCIETY OF CIVIL ENGINEERS AND ARCHITECTS.** Constitution. no place, 1895. 1 v., 6 x 3, pap.

128.1 ——Proceedings of the annual meeting; 3d; 1898. Wheeling, 1898. 1 v., 9 x 6, pap.

150.1 **WESTERN AND SOUTHERN RAILWAY ASSOCIATION.** Proceedings at a meeting held in St. Louis, Jan. 16th, 1872. Note: Association organized at this meeting. Springfield, 1872. 17 pp., 8 x 5, pap.

150.2 ——Proceedings of the quarterly meeting; 2d; Jl., 1872. Indianapolis, 1872. 1 v., 9 x 6, pap.

WESTERN ASSOCIATION OF ARCHITECTS. Proceedings; 1889. (See American Institute of Architects.)

92.1 **WESTERN NEW YORK CAR SERVICE ASSOCIATION.** Annual report; 10th; 1899. no place, 1899. 1 v., 9 x 5, pap.

17.2 **WESTERN RAILROAD ASSOCIATION.** Annual report of the Executive Committee to the members; 1872, '76. Chic., 1872-77. 2 v., 9 x 6, pap.

17.1 **WESTERN RAILWAY CLUB.** Official proceedings (monthly); 1893-May, '99 (v. 5-11). Note: Proceedings, Jan., Apr., May, Oct., 1893; Jan., Feb., Sept., Oct., Dec., 1894; Feb.-May, 1895 wanting. Chic., 1893-99. 7 v., il., 9 x 6, unbound.

18.3 **WESTERN SOCIETY OF ENGINEERS.** Constitution, by-laws and list of members; 1886, '94-96, '99-1900. Note: Formerly called Civil Engineers' Club of the Northwest. Chic., 1896-1900. 6 v., 9 x 6, pap.

18.2 ——Journal (bi-monthly); 1896-99 (v. 1-4). Chic., 1896-99. 4 v., il., 9 x 6, unbound.

18.4 ——Partial report of the Committee on the Metric System. no place, 1878. 38 pp., 9 x 6, pap.

18.1 ——Proceedings; 1876, '78-80, '94 (v. 1, 3-5, 19). Note: v. 19, No. 319 wanting. Chic., 1876-94. 5 v., il., 9 x 6, cl.

24.1 **WISCONSIN ACADEMY OF SCIENCES, ARTS AND LETTERS.** Transactions; 1873-76, '88-91 (v. 2-3, 8). Madison, 1874-92. 3 v., por., pl., maps, 10 x 6, pap.

SOCIETY PUBLICATIONS—SOUTH AMERICA.

Sb1 ARGENTINE REPUBLIC.

1.1 **SOCIEDAD CIENTIFICA ARGENTINA.** Anales (monthly); 1876-99 (v. 1-48). Note: v. 5, No. 1 (Jan., 1878); v. 6, Nos. 3, 6 (Sept., Dec., '78); v. 9, Nos. 3, 6 (Mar., June, '80); v. 15, Nos. 4, 5 (Apr., May, '83); v. 36, No. 1 (July, '93) wanting. Buenos Aires, 1876-99. 48 v., 10 x 7, unbound.

3.1 **SOCIEDAD DE INGENIEROS CIVILES DE LA REPUBLICA ARGENTINA.** Estatutos. Buenos Aires, 1887. 1 v., 10 x 6, pap.

2.1 **SOCIEDAD GEOGRAPHICA ARGENTINA.** Revista; 1886-88, '90 (v. 4-7). Note: v. 4, 6-7 (1886, '88, '90) incomplete. Buenos Aires, 1886-90. 4 v., 10 x 6, unbound.

Sb4 CHILE.

1.1 **INSTITUTO DE INJENIEROS.** Anales (monthly); 1889-June, 1900 (v. 1-17). Note: Publication irregular. v. 4, Nos. 4-6 (Oct.-Dec., 1892); v. 5, No. 1 (Jan., '93) wanting. Santiago de Chile, 1889-1900. 17 v., il., 11 x 7, unbound.

1.2 ——Estatutos. Santiago de Chile, 1899. 1 v., 10 x 7, pap.

Sb11 VENEZUELA.

1.1 **SOCIEDAD VENEZOLANA DE INGENIEROS CIVILES.** Ofrenda al Gran Mariscal de Ayacucho en su centenario. Caracas, 1895. 115 pp., pl., 9 x 6, pap.

Sc

1.1 **SOCIEDAD GUATEMALTECA DE CIENCIAS.** Revista mensual; Sept.-Nov., 1893, Jan.-June, '94 (v. 1, No. 12; v. 2, Nos. 1-2, 4-9). Guatemala, 1893-94. 2 v., 10 x 7, unbound.

SOCIETY PUBLICATIONS—EUROPE.

Sd1 AUSTRIA.

1.5 **OESTERREICHISCHER INGENIEUR- UND ARCHITEKTEN- VEREIN.** Bericht des Gewölbe-Ausschusses. Wien, 1895. 1 + 131 pp., 27 pl., 14 x 11, pap.

1.2 ——Bericht über die aus Anlass des fünzigjährigen Bestandes des Oesterr. Ingenieur-und Architekten-Vereines veranstalteten Festlichkeiten. Wien, 1899. 52 + 51 pp., il., tab., 14 x 10, pap.

1.4 ——Denkschrift zur Erinnerung an die 25 Jaehrige Gründungsfeier des Vereins, 8 Juni, 1848-8 Juni, 1873. Wien, 1873. 23 pp., pl., 14 x 11, pap.

1.1 ——Festschrift herausgegeben vom Vereine zur Feier seines fuenfzigjaehrigen Bestandes. Wien, 1899 (?) 154 pp., il., 14 x 10, pap.

——Nachtrag zum Verzeichniss der Mitglieder. Wien, 1874. 12 pp., 9 x 6, b. p. Cb-238, p. 665.

1.8 ——Schäden an Dampfkesseln. Wien, 1891-96. 2 v., pl., 12 x 9, pap.

1.3 ——Verzeichniss der Mitglieder; 1884, '86, '94, '96 (v. 22, 24, 28-29). Wien, 1884-96. 4 v., 9 x 6, pap.

1.7 ——Wochenschrift (weekly); 1876-91 (v. 1-16). Note: Ceased publication at the close of 1891; from which date the *Zeitschrift* was published weekly, combining the functions of the two magazines. Wien, 1876-91. 16 v., 13 x 10, unbound.

1.6 ——Zeitschrift (weekly): 1873-99 (v. 25-51). Note: Published monthly prior to 1892, before which date the weekly publication of the Society was the *Wochenschrift*. v. 25, 28, 43, 47 (1873, '76, '91, '95) incomplete. Wien, 1873-99. 26 v., 14 x 11, unbound.

2.1 **VEREIN FÜR DIE FÖRDERUNG DES LOCAL- UND STRASSENBAHNWESENS.** Mittheilungen (monthly); 1893-96 (v. 1-4). Wien, 1893-96. 4 v., il., 10 x 7, unbound.

2.2 ——Satzungen. Wien, 1893. 1 v., 9 x 6, pap.

Sd2 BELGIUM.

1.1 **ASSOCIATION DES INGÉNIEURS SORTIS DES ÉCOLES SPÉCIALES DE GAND.** Annales (quarterly); 1890-99 (v. 14-22). Note: v. 14, Pts. 2 and 4 (1890-91) wanting. Gand, 1891-99. 9 v., il., 9 x 6, unbound.

2.1 **SOCIÉTÉ BELGE DES INGÉNIEURS ET DES INDUSTRIELS.** Bulletin, annales et compte rendu; 1894-95 (v. 3, No. 1). Bruxelles, 1895. 1 v., il., 10 x 6, pap.

2.3 ——Liste des membres; 1896-98, '99-1900. Bruxelles, 1897-1900. 3 v., 9 x 6, pap.

2.2 ——Rapport annuel; 1896-99. Bruxelles, 1897-99. 3 v., 9 x 6, pap.

Sd3 DENMARK.

1.1 **TEKNISKE FORENING.** Tidsskrift (monthly); July, 1891-Mar., 1900 (v. 15-23). Kobenhavn, 1891-1900. 9 v., 12 x 10, unbound.

Sd4 FRANCE.

3.1 **ASSOCIATION AMICALE DES ANCIENS ELÈVES DE L'ÉCOLE CENTRALE** des Arts et Manufactures. Annuaire; 1888-99. Paris, 1888-1900. 12 v., 9 x 6, pap.

3.2 ——Bulletin (monthly); Mar., 1887-Dec., '99 (v. 18-30). Note: From 1887-96 published bi-monthly. Sept. and Oct., 1887 (v. 18); Jan.-Oct., '88 (v. 19); Jan. and Feb., May and June, Sept. and Oct., '89 (v. 20); July and Aug., '92 (v. 23) wanting. Paris, 1887-99. 13 v., 9 x 6, unbound.

2.1 **ASSOCIATION SCIENTIFIQUE DE FRANCE.** Bulletin mensuel météorologique; Dec., 1871-Nov., '73 (v. 1-2). Paris, 1872-73. 2 v., 9 x 6, unbound.

5.1 **INTIME CLUB, PARIS.** Croquis d'architecture (monthly); 1866-Apr., '70 (v. 1-4). Paris, 1867-70. 4 v. in 2, il., 21 x 24, ½ ro.

1.1 **PARIS ACADÉMIE DES SCIENCES.** Comptes rendus hebdomadaires des séances; 1850-64 (v. 30-59). Note: v. 31, 50, 51, 53 (July-Dec., 1850, Jan.-June, '60, July-Dec., '60, July-Dec., '61) incomplete; v. 49, 52, 54-57 (July-Dec., 1859, Jan.-June, '61, 1862-63) wanting. Paris, 1850-64. 24 v. in 23, 11 x 8, ½ skiv.

1.2 ——Mémoires; 1866 (v. 35). Paris, 1866. 1 v., il., 11 x 9, pap.

4.2 **SOCIÉTÉ DES INGÉNIEURS CIVILS DE FRANCE.** Annuaire; 1891-1900 (v. 44-53). Paris, 1891-1900. 10 v., 9 x 6, pap.

4.3 ——Cinquantenaire, 1848-98. Paris, 1898 128 pp., il., 10 x 7, ¾ mor.

4.4 ——Congrès de 1896. Paris, 1897. 131 pp., 2 pl., 9 x 6, pap.

4.1 ——Mémoires et compte rendu des travaux de la Société; 1848-90. Paris, 18[illegible] 42 v. in 62, 10 x 6, cl.

Sd5 GERMANY.

14.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN FÜR NIEDERRHEIN UND WESTfalen.** Köln und seine Bauten; Festschrift zur VIII. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine, in Köln, vom 12 bis 16 August, 1888. Köln, 1888. 14 + 806 pp., il., pl., 10 x 7, cl.

12.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN ZU HAMBURG.** Hamburg und seine Bauten, unter Berücksichtigung der Nachbarstädte, Altona und Wandsbeck; zur IX. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine in Hamburg, vom 24 bis 28 August, 1890. Hamburg, 1890. 23 + 730 pp., il., pl., 10 x 7, cl.

16.1 **ARCHITEKTEN- UND INGENIEUR-VEREIN ZU HANNOVER.** Hannover; Führer durch die Stadt und ihre Bauten; redigirt von Theodor Unger. Hannover, 1882. 14 + 346 pp., il., pl., maps, 8 x 4, cl.

16.2 ——Zeitschrift; 1875–97 (v. 21–43). Note: v. 42, 43 (1896, '97) incomplete; v. 26, 35, 41 (1880, '89, '95) wanting. Hannover, 1875–97. 20 v., 14 x 10, unbound.

13.1 **ARCHITEKTEN VEREIN ZU BERLIN.** Berlin und seine Bauten. Ber., 1877. 2 v. in 1, il., pl., 11 x 7, pap.

17.1 **BAYERISCHER ARCHITEKTEN- UND INGENIEUR-VEREIN.** Bautechnischer Führer durch München; Festschrift zur zweiten General-Versammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine; redigirt von Franz Reber. München, 1876. 6 + 286 pp., il., pl., 7 x 5, bds.

9.1 **DEUTSCHER ARCHITEKTEN- UND INGENIEUR- VEREIN.** Bericht ueber die Versammlung. Wien, 1865. 1 v., il., pl., 13 x 10, pap.

9.2 ——Stenographische Berichte über die Verhandlungen in den Haupt-Abtheilungs-Sitzungen der General-Versammlung; 1st; 1874. Ber., 1875. 1 v., 8 x 5, pap.

20.1 **ELEKTRO-TECHNICHER VEREIN.** Origin and operations. Ber., 1881. 30 pp., 7 x 5, pap.

10.1 **FRANKFURTER ARCHITEKTEN- UND INGENIEUR-VEREIN.** Frankfurt a.M. und seine Bauten. Frankfurt a. M., 1886. 8 + 650 pp., il., pl., map, 10 x 7, pap.

6.1 **SÄCHSISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN.** Jahrbuch; 1882–83 (v. 1–2). Note: v. 2, Pt. 1 wanting. Leipzig, 1882–84. 2 v., il., 12 x 9, pap.

6.2 **SÄCHSISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN und DRESDENER** Architekten-Verein. Die Bauten der technischen und industriellen Anlagen von Dresden. Dresden, 1878. 10 + 594 pp., il., pl., 11 x 7, bds.

7.1 **SÄCHSISCHER INGENIEUR-VEREIN.** Mittheilungen; 1858 (Pt. 1). Dresden, 1858. 1 v., 11 x 7, pap.

5.3 **VERBAND DEUTSCHER ARCHITEKTEN UND INGENIEURE.** Mittheilungen über Wiesbaden und vom Mittelrhein; Festschrift zu der Wander-Versammlung des Verbandes, in Wiesbaden, vom 15 bis 23, September, 1880. München, 1880. 134 pp., pl., 14 x 10, pap.

5.2 ——Statuten; 1871. Ber., 1872. 1 v., 8 x 5, pap.

2.1 **VEREIN DEUTSCHER EISENBAHN-VERWALTUNGEN.** Berichte über die Beantwortungen wichtiger technischer Fragen. Ber., 1892. various pagings, 15 x 8, pap.

2.2 ——Organ für die Fortschritte des Eisenbahnwesens in technischer Beziehung; ed. by Edmund Heusinger von Waldegg; 19th–29th year; new ser., v. 1–3, 5–11. Wiesbaden, 1864–74. 11 v. in 10, 12 x 9, bds., ¾ mor.

2.2*a* ——Same. Sach- und Autoren-Register; 1864–73. Wiesbaden, 1873. 84 pp., 12 x 10 pap.

3.1 **VEREIN DEUTSCHER INGENIEURE.** Festschrift zur 39, Hauptversammlung. Chemnitz, 1898. 8 + 416 pp., il., maps in pocket, 11 x 8, cl.

3.2 ——Verzeichniss der Mitglieder; 1876, '91, '98, 1900. Ber., 1876–1900. 4 v., 12 x 10, 7 x 5, pap.

3.3 ——Zeitschrift (weekly); 1885–99 (v. 29–43). Ber., 1885–99. 15 v., 12 x 9, unbound.

1.1 **VEREIN DEUTSCHER PORTLAND CEMENT-FABRIKANTEN.** Protokoll der Verhandlungen; 1878–99. Ber., 1878–99. 22 v., il., 9 x 6, unbound.

19.1 **VEREIN FÜR EISENBAHNKUNDE IN BERLIN.** Mittheilungen aus der Tagesliteratur des Eisenbahnwesen; 1886–88. Ber., 1886–88. 3 v., 8 x 5, pap.

19.2 ——Verhandlungen; 1886–88. Ber., 1886–88. 3 v., 8 x 5, pap.

4.1 **VEREIN FÜR ERDKUNDE.** Jahresbericht; 8th–9th, 11th–15th; 1870 72, '73–78. Dresden, 1872–78. 7 v. in 6, 8 x 5, pap.

8.1 **VEREIN ZUR BEFÖRDERUNG DES GEWERBFLEISSES.** Verhandlungen. Ber., 1896. 1 v., 11 x 9, pap.

11.1 **VEREINIGUNG LEIPZIGER ARCHITEKTEN UND INGENIEURE.** Leipzig und seine Bauten; zur X. Wanderversammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine in Leipzig vom 28 bis 31 August, 1892. Leipzig, 1892. 16 + 856 pp., il., pl., map, 10 x 7, cl.

15.1 **WÜRTTEMBERG VEREIN FÜR BAUKUNDE.** Stuttgart; Führer durch die Stadt und ihre Bauten; Festschrift zur sechsten General-Versammlung des Verbandes deutscher Architekten- und Ingenieur-Vereine. Stuttgart, 1884. 9 + 205 pp., il., pl., maps, 8 x 4, cl.

Sd6 GREAT BRITAIN.

21.1 **AERONAUTICAL SOCIETY OF GREAT BRITAIN.** Annual report; 1st;-22d; 1866-87. Lond., 1866-87. 22 v. in 20, il., pl., 7 x 5, pap.

21.2 ——First exhibition: Catalogue. Lond., 1869 (?) 28 pp., 9 x 6, pap.

18.1 **ASSOCIATION OF MUNICIPAL AND SANITARY ENGINEERS AND SURVEYORS.** Proceedings; 1873-75, '77-82 (v. 1-2, 4-8). Lond., 1875-82. 7 v., 9 x 6, cl.

2.1 **BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Report of the meeting; 1st-69th; 1831-99. Note: Reports Nos. 26, 28, 31-32, 37, 40-42, 44-46, 51 (1856, '58, '61-62, '67, '70-72, '74-76, '81) wanting. Lond., 1833-99. 57 v. in 56, 9 x 6, ¾ sh., cl.

2.2 ——Toronto meeting, 1897: Preliminary programme. Toronto, 1896. 69 pp., il., maps, 9 x 6, pap.

23.1 **BRITISH IRON TRADE ASSOCIATION.** Annual statistical report of the Secretary to the members, on the home and foreign iron and steel industries; 8th; 1884. Lond., 1885. 1 v., 9 x 6, pap.

25.1 **CORPS OF ROYAL ENGINEERS.** Papers on subjects connected with the duties of the Corps; v. 1-10. Lond., 1839-49. 10 v., il., 11 x 8, sh.

30.1 **DECIMAL ASSOCIATION.** Copy of the memorial to the School Board for London, presented by deputation June 26th, 1890. Lond., no date. unpaged, 13 x 8, pap.

32.1 **GAS INSTITUTE.** List of subscriptions, etc.; 1881. no place, 1881. 1 v., 8 x 5, pap.

GEOLOGICAL SOCIETY OF LONDON. Quarterly journal; v. 14. Lond., 1858. 1 v., il., 8 x 5, b. p. Yh-23, p. 249.

28.1 **IMPERIAL INSTITUTE.** Journal; 1895-97 (v. 1-3). Note: Each volume incomplete. Lond., 1895-97. 3 v., 15 x 10, unbound.

28.3 ——Organization, rules, etc. Lond., 1892. 64 pp., il., 10 x 6, pap.

9.1 **INSTITUTE OF MARINE ENGINEERS.** Transactions; 1889-99 (v. 1-10). Stratford, 1889-99. 10 v., il., pl., 8 x 5. ¾ cf.

1.8 **INSTITUTION OF CIVIL ENGINEERS.** Address of Charles Blacker Vignoles on his election as President of the Institution. Lond., 1870. 59 pp., tab., 10 x 7, pap.

——Address of Thomas Hawksley on his election as President. Lond., 1872. 24 pp., 9 x 6, b. p. Cb-233, p. 249.

1.6 ——Benevolent fund: Report of the proceedings at the annual general meeting; 8th, 12th; 1872, '76. no place, 1872-76. 2 v., 8 x 5, pap.

1.5 ——Catalogue of the library, 1865. ed. 2. Lond., 1866. 8 + 378 pp., 9 x 6, cl.

1.5*a* ——Same: Supplement, 1866-70. Lond., 1870. 160 pp., 9 x 6, cl.

1.5*b* ——Same. Lond., 1895. 3 v., 9 x 6, cl.

1.3 ——Charter, supplemental charters, by-laws and list of members; 1866, '79-80, '85, '89, '91, '93, '95-96, '98. Lond., 1866-98. 10 v., 9 x 6, pap., cl.

1.9 ——Engineering education in the British dominions; comp. fr. official sources, with regulations of the Institution as to the admission of students. Lond., 1891. 76 pp., 8 x 5, cl.

1.11 ——Heat in its mechanical applications: A series of lectures delivered at the Institution; Session 1883-84. Lond., 1885. 236 pp., 4 pl., 9 x 6, cl.

1.4 ——List of members; Jan., 1838-July, 1900. Lond., 1838-1900. 41 v., 9 x 6, pap.

1.2 ——Minutes of proceedings, with other selected and abstracted papers; 1837-1900 (v. 1-141). Lond., 1837-1900. 141 v., 9 x 6, cl.

1.2*a* ——Same; Index; v. 1-138. Lond., 1881-99. 3 v., 9 x 6, ½ mor., pap.

1.10 ——Practical applications of electricity: A series of lectures delivered at the Institution; Session 1882-83. Lond., 1884. 181 pp., 2 pl., 9 x 6, cl.

1.7 ——Report of proceedings at the annual general meeting; 1881, '97. Lond., 1881-97. 2 v., 8 x 5, pap.

1.13 ——Report of the Committee appointed on the 31st Mar., 1896, to consider and report to the Council upon the subject of the definition of a standard or standards of thermal efficiency for steam engines. Lond., 1898. 37 pp., 5 pl., 8 x 5, pap.

1.12 ——Theory and practice of hydro-mechanics: A series of lectures delivered at the Institution; Session 1884-85. Lond., 1885. 208 pp., 6 pl., 9 x 6, cl.

1.1 ——Transactions; v. 1-3. Lond., 1836-42. 3 v. in 7, il., tab., 11 x 9, ¾ cf., cl.

INSTITUTION OF CIVIL ENGINEERS OF IRELAND. An address on Dec. 7th, 1887; by the President, John Purser Griffith. Dublin, 1887. 47 pp., 8 x 5, b. p. Kb-22, p. 73.

5.2 ——Bye-laws and regulations. Dublin, 1874. 1 v., 9 x 6, pap.

5.3 ——List of members; 1877-78. Dublin, 1877-78. 2 v., 8 x 5, pap.

——Report of John Purser Griffith to the Council of the Institution, on the International Congress of Engineers, held in Chicago, July 31st to Aug. 5th, 1893. no place, no date. 8 pp., 8 x 5, b. p. no title-page. Kb-22, p. 219.

5.4 ——Royal charter of incorporation. no place, 1877. 8 pp., 8 x 5, pap.

5.1 ——Transactions; 1875-87, '94-97 (v. 11-18, 23-26). Dublin, 1877-97. 12 v., 9 x 6, pl

Sd6 GREAT BRITAIN—(*Continued*).

7.1 **INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND.** Transactions; 1857-99 (v. 1-42). Glasgow, 1858-99. 42 v., il., pl., 9 x 6, pap., cl.

11.2 **INSTITUTION OF JUNIOR ENGINEERS.** Programme, list of members, rules, and report of session; 9th-11th; 1889-92. Lond., 1889-91. 3 v., 8 x 5, pap.

11.1 ——Record of transactions; 1891-99 (v. 2-9). Lond., 1891-99. 8 v., il., pl., 9 x 6, cl.

17.4 **INSTITUTION OF MECHANICAL ENGINEERS.** Belfast meeting, 1896: Detailed programme. no place, 1896. 12 pp., il., 5 maps, 9 x 4, pap.

17.2 ——Library catalogue. May, 1881, June, 1887, and subject index of papers in the Proceedings, 1847-87. Lond., no date. various pagings, 9 x 6, ¾ mor.

17.3 ——List of members; 1873, '76, 1900. no place, 1873-1900. 3 v., 9 x 6, pap.

17.1 ——Proceedings; 1861-99. Lond., 1861-99. 39 v., il., pl., 9 x 6, ¾ mor., pap.

26.3 **INSTITUTION OF MINING ENGINEERS.** Historical sketch of the first Institution of Mining Engineers: A paper read Feb. 22d, 1899. B. H. Brough. Lond., 1899. 13 pp., 10 x 6, pap.

15.1 **INSTITUTION OF NAVAL ARCHITECTS.** Transactions; 1895 (v. 36). Lond., 1895. 1 v., 11 x 9, cl.

6.3 **IRON AND STEEL INSTITUTE.** Catalogue of the library, 1884. Lond., 1884. 1 v., 9 x 6, cl.

6.5 ——Detailed programme of meeting; 1885, '90. Glasgow, 1885-90. 2 v., 8 x 5, pap.

6.1 ——Journal; 1872-1900 (v. 1-57). Note: v. 3 (1873) wanting. Lond., 1872-1900. 56 v., il., pl., 9 x 6, cl.

6.4 ——Rules and list of members; 1894-1900. Lond., 1894-1900. 7 v., 9 x 6, pap.

6.2 ——Special volume of "Proceedings." Note: Relates to the visit of the Iron and Steel Institute to the United States in 1890. Lond., no date. 20 + 508 pp., il., pl., maps, tab., 9 x 6, cl.

4.2 **LIVERPOOL ENGINEERING SOCIETY.** Report and statement of accounts; 1890-92 (Sess. 17-19). no place, 1890-92. 3 v., 8 x 5, pap.

4.1 ——Transactions; 1877-99 (v. 1-20). Liverpool, 1881-99. 20 v. in 18, 9 x 6, ¾ mor., pap.

31.1 **MANCHESTER STEAM USERS' ASSOCIATION.** Annual report of the Committee of Management to the members of the Association; 1869, '71-72. Manchester, '70-73. 3 v., 9 x 6, pap.

31.3 ——Chief Engineer's monthly report to the Executive Committee: Jan., 1868-June, '76 (Nos. 73-174). Note: Nos. 95, 106, 132, 139-143, 150, 154, 156-173 wanting. Manchester, 1868-76. 43 v. in 17, 9 x 6, ¾ ro., pap.

31.2 ——Memorandum by the Chief Engineer; 1898-1900. Manchester, 1898-1900. 3 v., 9 x 6, pap.

20.1 **MIDLAND INSTITUTE OF MINING, CIVIL AND MECHANICAL ENGINEERS.** Transactions; 1878-99 (v. 6-15). Barnsley, 1879-99. 10 v., 9 x 6, pap.

3.2 **MINING INSTITUTE OF SCOTLAND.** Rules, list of members; 1880, '82, '84, '93-95. Hamilton, 1880-95. 6 v., 8 x 5, 9 x 6, pap.

3.1 ——Transactions; 1879-99 (v. 1-20). Hamilton, 1880-99. 20 v., il., 9 x 6, cl., pap.

29.1 **NATIONAL RIFLE ASSOCIATION.** Proceedings; 1873. Lond., 1873. 1 v., 9 x 6, pap.

8.5 **NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Account of the strata of Northumberland and Durham as proved by borings and sinkings. Note: A-B, L-M wanting. Newcastle-upon-Tyne, 1881-97. 4 v., 10 x 6, pap.

8.2 ——Annual report of the Council, accounts, list of Council, officers and members, and the charter and bye-laws; together with the bye-laws of the Federated Institution of Mining Engineers; 1890-99. Note: Report, 1895 wanting. Newcastle-upon-Tyne, 1891-99. 8 v., 10 x 6, pap.

8.4 ——Report of the French Commission on the use of explosives in the presence of fire-damp in mines; tr. by W. J. Bird and M. Walton Brown. Newcastle-upon-Tyne, 1890. 1 v. in 3, il., tab., 10 x 6, pap.

8.3 ——Report of the proceedings of the Flameless Explosives Committee, by A. C. Kayll. Contents: Pt. 1, Air and combustible gases; Pt. 2, Coal-dust; Pt. 3, Conclusions. Newcastle-upon-Tyne, 1894-96. 1 v. in 3, il., pl., 10 x 6, pap.

8.1 ——Transactions; 1868-90, '93-99 (v. 18-39, 42-48). Newcastle-upon-Tyne, 1869-99. 29 v., il., pl., 10 x 6, ¾ cf., pap.

10.1 **NORTHEAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS.** Transactions; 1893-99 (v. 10-15). Lond., 1894-99. 6 v., 10 x 6, ¾ mor.

14.1 **PHILOSOPHICAL SOCIETY OF GLASGOW.** Proceedings; 1888-99 (v. 20-30). Glasgow, 1889-99. 11 v., il., pl., 9 x 6, pap.

22.1 **ROYAL SOCIETY OF LONDON FOR THE ADVANCEMENT OF NATURAL KNOWLEDGE.** Philosophical transactions and collections; 1700-1750 (v. 1-10). Lond., 1731-56. 10 v. in 12, 10 x 7, cf.

12.4 **ROYAL UNITED SERVICE INSTITUTION.** Brief history. Boughey Burgess. Lond., 1887. 37 pp., il., 9 x 6, pap.

Sd6 GREAT BRITAIN—(*Continued*).

12.3 ——Bye-laws. no place, 1892. 1 v., 9 x 6, pap.

12.1 ——Journal; 1874-99 (v. 18-43). Note: v. 18 incomplete. Lond., 1874-99. 26 v., 10 x 6, unbound.

12.2 ——List of members; 1880-81, '85, '88, '90, '92. Lond., 1880-92. 6 v., 9 x 6, pap.

13.2 SANITARY INSTITUTE OF GREAT BRITAIN. Journal; Apr., 1895 (v. 16, Pt. 1). Lond., 1895. 1 v., il., por., pl., 9 x 6, pap.

13.1 ——Transactions; 1879-80 (v. 1-2). Lond., 1880-81. 2 v., 9 x 6, cl.

24.1 SOCIETY OF ARTS. Journal (weekly); 1874-99 (v. 23-47). Lond., 1874-99. 25 v., 10 x 7, unbound.

24.3 ——Report on the application of science and art to street-paving and street-cleansing of the Metropolis. Lond., 1875. 35 pp., il., 10 x 6, pap. no title-page.

24.2 ——Reports of artisans selected by a committee appointed by the Council of the Society to visit the Paris Universal Exhibition, 1867. Lond., 1867. 2 v. in 1, 9 x 6, cl.

16.2 SOCIETY OF ENGINEERS. Rules, bye-laws and list of members, etc.; 1877, '86-87. Lond., 1877-87. 3 v., 8 x 5, pap.

16.1 ——Transactions; 1861-99. Note: Transactions for 1875 wanting. Lond., 1862-1900. 38 v., il., pl., 9 x 6, pap., cl.

Sd8 ITALY.

1.1 COLLEGIO DEGLI ARCHITETTI ED INGEGNERI IN FIRENZE. Atti; July, 1876-July,'77; Apr.-Aug., '79; Jan.-June, '94; Jan.-June,'95; '96 (v. 1; v. 2, Pt. 1; v. 4, Pt. 2; v. 19, Pt. 1; v. 20, Pt. 1; v. 21). Firenze, 1887-96. 6 v., il., 10 x 7, unbound.

3.1 COLLEGIO DEGLI INGEGNERI E DEGLI ARCHITETTI IN PALERMO. Atti; 1887-90, '92-94 (v. 10-13, 15-17). Note: v. 11, No. 1; v. 12, Nos. 2-3; v. 14; v. 15, Nos. 1-2; v. 16, No. 1 wanting. Palermo, 1887-94. 6 v., 11 x 8, unbound.

2.1 SOCIETÁ DEGLI INGEGNERI E DEGLI ARCHITETTI ITALIANI. Annali (bimonthly); 1892-99 (v. 7-14). Note: v. 13, Nos. 3, 6; v. 14, No. 6 (May-June, Nov.-Dec., 1898; Nov.-Dec., '99) wanting. Roma, 1892-99. 8 v., il., 11 x 7, unbound.

2.2 ——Cataloga della biblioteca, 1898. Roma, 1898. 8 + 140 pp., 10 x 7, pap.

Sd9 NETHERLANDS.

2.4 KONINKLIJK INSTITUUT VAN INGENIEURS. Gedenkboek uitgegeven ter gelegenheid van het vijftigjarig bestaan. Note: A collection of papers by members of the Institute on various engineering works. no place, 1897. 337 pp., il., pl., 15 x 11, cl.

2.2 ——Mémorial publié à l'occasion du cinquantenaire de l'Instituut Royal Ingénieurs Néerlandais, 1847-1897. La Haye, 1899. 212 pp., 14 x 11, ½ cl.

2.1 ——Reglement en verordeningen. Te's-Gravenhage, 1871. 1 v., 9 x 6, pap.

2.6 ——Repertoire de cartes; 1856, '59, '65, '68. La Haye, 1856-68. 4 v., 11 x 7, unbound.

2.3 ——Tijdschrift; 1870-99. Note: Contains each year a general report of the work of the Instituut with a list of members; 1893-99 incomplete. Te's-Gravenhage, 1870-99. 29 v., 13 x 10, unbound.

2.3a ——Same; Register; 1869-94. Te's-Gravenhage, 1884-94. 3 v., 13 x 10, pap.

2.5 ——Vakafdeeling voor werktuig-en scheepsbouw: Jaarverslag; 1899-1900. no place, no date. 1 v., 10 x 7, pap.

1.1 NEDERLANDSCHE VEREENIGING VOOR ELECTROTECHNIEK. Notulen; 1895-99 (Nos. 1, 3-4, 8-9). Te's-Gravenhage, 1896-99. 5 v. in 3, 9 x 6, pap.

Sd10 NORWAY.

1.1 NORSKE INGENIOR- OG ARKITEKT-FORENING OG DEN POLYTEKNISKE Forening. Medlemsfortegnelse; 1894, '97. Christiania, 1894-97. 2 v., 10 x 6, 9 x 6, pap.

Sd11 PORTUGAL.

1.3 ASSOCIAÇÃO DOS ENGENHEIROS CIVIS PORTUGUEZES. Lista dos socios. Lisboa, 1892. 1 v., 9 x 6, pap.

1.2 ——Relação dos socios effectivos e aggregados; Apr., 1899. Lisboa, 1899. 1 v., 9 x 6, pap.

1.1 ——Revista de obras publicas e minas (monthly); 1870-99 (v. 1-30). Note: v. 27, Nos. 322-324 (Oct.-Dec., 1896) wanting. Lisboa, 1870-99. 30 v., il., 9 x 6, ½ ro.

Sd13 RUSSIA.

1.1 TECHNISCHER VEREIN ZU RIGA. Notizblatt; 1892-94 (v. 11-13). Riga, 1892-94. 3 v., 12 x 9, unbound.

Sd14 SPAIN.

1.1 **ASOCIACIÓN DE INGENIEROS INDUSTRIALES DE BARCELONA.** Revista Technológico Industrial (monthly); 1889-99 (v. 13-22). Note: v. 13, Nos. 1-5, 7-12 (Jan. May, July-Dec., 1890); v. 14-15 ('91-92); v. 16, Nos. 1-9 (Jan.-Sept., '93) wanting. Barcelona, 1889-99. 9 v., il., 10 x 7, unbound.

Sd15 SWEDEN.

2.1 **INGENIÖRS-FÖRENINGENS.** Förhandlingar; 1876-90 (v. 11-25). Note: v. 18 (1883) incomplete. Stockholm, 1876-90. 15 v., 11 x 9, unbound.

1.1 **SVENSKA TEKNOLOGFÖRENINGEN.** Förteckning ofver ledamöter; 1893-1900. Stockholm, 1893-1900. 8 v., 8 x 5, pap.

Sd16 SWITZERLAND.

1.1 **INTERNATIONALER VERBAND FÜR DIE MATERIAL PRÜFUNGEN DER** Technik. Statuten und Mitglieder-Verzeichnis. Zurich, 1897. 1 v., 9 x 6, pap.

2.1 **SCHWEIZERISCHER INGENIEUR UND ARCHITEKTEN VEREIN.** Bauwerke der Schweiz; v. 1-3. Zurich, 1890-1900. 3 v., pl., 19 x 14, pap.

SOCIETY PUBLICATIONS—ASIA.

Se

3.1 **COMMITTEE OF LOCOMOTIVE AND CARRIAGE SUPERINTENDENTS FOR** India. General and subsidiary rules, corrected up to 1st Jan., 1894. no place, 1894. 23 pp., 14 x 9, pap.

3.2 ——General directory and railway list, corrected up to 1st Jan.; 1892, '94-96. Simla, 1892-96. 4 v., 14 x 9, pap.

3.3 ——Proceedings; 1889-94 (v. 1-6). Simla, 1890-95. 6 v., 14 x 9, ¾ ro.

3.3*a* ——Same; Index; v. 1-6. Simla, 1894-95. 3 v., 14 x 9, ¾ ro.

3.5 ——Proceedings of the meeting held at Lucknow in Dec., 1889. Note: Meeting to discuss the organization of such a committee in India. no place, no date. unpaged, 14 x 9, pap. no title-page.

3.4 ——Reprint of the proceedings; 1889-93 (v. 1-5). Simla, 1894. 211 pp., 14 x 9, pap.

2.3 **KŌGAKUKYŌKAI.** Address delivered before the members of Kōgakukyōkai, Feb., 1886, on engineering matters in Japan. J. A. L. Waddell. Tokyo, 1886. 21 pp., 9 x 6, pap.

1.2 **SEISMOLOGICAL SOCIETY OF JAPAN.** Constitution. no place, 1888. 1 v., 9 x 6, pap. no title-page.

1.1 ——Transactions; 1882-94 (v. 4-17, 19). Note: v. 8 (1885) wanting. Yokohama, 1882-94. 14 v. in 17, il., pl., 9 x 6, pap.

SOCIETY PUBLICATIONS—AFRICA.

Sf

1.1 **SOUTH AFRICAN ASSOCIATION OF ENGINEERS AND ARCHITECTS.** Proceedings; 1892-99 (v. 1-5). Note: v. 4 (1897-98) wanting. Johannesburg, 1893-99. 4 v., 9 x 6, pap.

SOCIETY PUBLICATIONS—AUSTRALIA.

Sg

5.2 **AUSTRALASIAN INSTITUTE OF MINING ENGINEERS.** Proceedings: Annual meeting; 1898, 1900. Melbourne, 1898-1900. 2 v., 9 x 6, pap.

5.3 ——Proceedings: Ordinary meeting; 1898-99. Melbourne, 1898-99. 2 v., 9 x 6, pap.

5.1 ——Transactions; 1897-99 (v. 4-6). Melbourne, 1897-1900. 3 v., il., pl., 9 x 6, pap.

2.1 **ENGINEERING ASSOCIATION OF NEW SOUTH WALES.** Minutes of proceedings; also, act of incorporation, rules and by-laws, and list of members; 1885-95 (v. 1-10). Sydney, 1885-95. 10 v., il., 9 x 6, cl.

3.2 **INSTITUTION OF SURVEYORS, NEW SOUTH WALES.** List of surveyors licensed to practice in New South Wales. 1899. Sydney, 1899. 16 pp., 7 x 5, pap.

3.1 ——The Surveyor: The journal of the Institution; 1888-99 (v. 1-12). Sydney, 1888-99. 12 v., 10 x 6, unbound.

1.1 **ROYAL SOCIETY OF NEW SOUTH WALES.** Journal and proceedings; 1876-99 (v. 10-33). Sydney, 1877-1900. 24 v., il., pl., 9 x 6, cl.

4.2 **VICTORIAN INSTITUTE OF SURVEYORS.** Intercolonial conference of surveyors: Report and proceedings, 1892. Melbourne, 1892. 23 pp., 13 x 8, pap.

4.1 ——Transactions and proceedings; 1885-91 (v. 3). Melbourne, 1891. 1 v., il., pl., 9 x 6, cl.

PERIODICALS.

PERIODICALS—NORTH AMERICA.

Ta2 MEXICO.

1 **ANALES DEL MINISTERIO DE FOMENTO DE LA REPÚBLICA MEXICANA** (monthly); 1877–80 (v. 1–4). Note: Since 1879 issued yearly. México, 1877–81. 4 v., il., 9 x 6, unbound.

3 **EL ARTE Y LA CIENCIA** (monthly); 1899 (v. 1). Méjico, 1899. 1 v., il., 14 x 10, unbound.

2 **EL MINERO MEXICANO** (weekly); 1878–79, '81–82 (v. 5–6, 8–9). Note: v. 5, 8, 9 (1878, '81, '82) incomplete. Mexico, 1878–82. 4 v., 13 x 8, unbound.

Ta3 UNITED STATES.

6 **AMERICAN ARCHITECT AND BUILDING NEWS** (weekly); 1876–June, '99 (v. 1–64). Note: v. 3 (Jan.–June, 1878) incomplete. Bost., 1876–99. 64 v. in 45, il., pl., 13 x 9, ½ mor.

108 **AMERICAN CHEMIST** (monthly); July, 1872–Dec., '78, Aug., '76–Mar., '77 (v. 3–4, 7). Note: Each volume incomplete. N. Y., 1872–77. 3 v., 14 x 10, unbound.

18 **AMERICAN ENGINEER** (weekly); 1880–92 (v. 1–23). Note: Prior to 1882 published monthly. Ceased publication 1892. v. 23 (1892) incomplete. Chic., 1880–92. 23 v., 14 x 11, unbound.

53 **AMERICAN ENGINEER AND RAILROAD JOURNAL** (monthly); 1832–67, '87–99 (v. 1–40, 61–73). Note: Established in 1832 as *American Railroad Journal and Advocate of Internal Improvements;* name changed in 1838 to *Railroad Journal and Mechanics' Magazine;* in 1845 to *Railroad Journal and General Advertiser;* in 1848 to *Railroad Journal and Iron Manufacturers' and Mining Gazette;* in 1867 consolidated with *Van Nostrand's Engineering Magazine*, under the title *Railroad and Engineering Journal;* Jan., 1898 name changed to *American Engineer and Railroad Journal;* Jan., 1896 consolidated with *National Car and Locomotive Builder*, with title *American Engineer, Car Builder and Railroad Journal;* Jan., 1899 present title resumed. v. 7–15 is v. 1–9 of new ser. (1832–42); v. 16–18 is v. 1–2 of 3d ser. (1843–44); v. 19–40 is v. 1–23 of 2d quarto ser. N. Y., 1832–99. 53 v. in 51, 9 x 6, 13 x 9, 12 x 8, unbound.

68 **AMERICAN GAS LIGHT JOURNAL** (weekly); 1872–June, 1900 (v. 17–72). Note: v. 17–19, 23–25 (1872, '73, July–Dec., '75, '76) incomplete; v. 20, 29 (Jan.–June, 1874, July–Dec., '78) wanting. N. Y., 1872–1900. 54 v., 13 x 10, unbound.

14 **AMERICAN JOURNAL OF SCIENCE AND ARTS** (bi-monthly); conducted by Benjamin Silliman; 1835–37, '51–55 (ser. 1, v. 28–33; ser. 2, v. 11–20). Note: Ser. 1 published quarterly; ser. 2, Nos. 47, 48, 56, 59, 60 (Sept., Nov., 1853; Mar., Sept., Nov., '55) wanting. New Haven, 1835–55. 16 v., il., 9 x 6, unbound.

110 **AMERICAN MACHINIST** (weekly); Dec., 1877–83 (v. 1–6). Note: v. 1–2 (1877–79) incomplete. N. Y., 1877–83. 6 v., il., 15 x 11, unbound.

60 **AMERICAN MANUFACTURER AND IRON WORLD** (weekly); 1876–June, 1900 (v. 12–66). Note: v. 12, 13, 21, 26, 27 incomplete; v. 14, 16–20, 22, 23 wanting. Pittsburgh, 1876–1900. 47 v., 13 x 9, 17 x 13, unbound.

53 **AMERICAN RAILROAD JOURNAL AND ADVOCATE OF INTERNAL IMPROVEMENTS**; 1832–67 (v. 1–40). See *American Engineer and Railroad Journal.*

37 **ANNALS OF HYGIENE** (monthly); July, 1886–May, '87 (v. 1, No. 7–v. 2, No. 5). Phil., 1886–87. 2 v., 10 x 6, unbound.

51 **ANNALS OF SCIENCE** (bi-monthly); being a record of the inventions and improvements in applied science; conducted by Hamilton A. Smith; v. 1. Cleveland, 1852–53. 1 v., il., 10 x 6, ¾ sh.

10 **APPLETONS' MECHANICS' MAGAZINE AND ENGINEERS' JOURNAL** (monthly); 1851–53 (v. 1–3). N. Y., 1852–54. 3 v., il., 9 x 6, 12 x 9, ½ sh.

21 **ARCHITECT, THE**; Jan.–Dec., 1871. Note: Text wanting. no place. 1871. 1 v., il., 13 x 9, ¾ mor. no title-page.

ARCHITECTS' AND BUILDERS' MAGAZINE. See *Architecture and Building.*

Ta3 UNITED STATES—(*Continued*).

112 **ARCHITECTURAL REVIEW** (8 Nos. per year); 1891-94 (v. 1-3). Note: Formerly published by the Massachusetts Institute of Technology under the title *Technology Architectural Review*, which see. v. 3 (1894) incomplete. Bost., 1891-94. 3 v., 14 x 11, unbound.

71 **ARCHITECTURE AND BUILDING** (weekly); 1890-Aug., '99 (v. 12-31). Note: Since Aug. 5th, 1899 incorporated with the *Builders' Magazine* and published monthly under the title *Architects' and Builders' Magazine*. N.Y., 1890-99. 20 v., 14 x 9, unbound.

64 **ARMY AND NAVY JOURNAL** (weekly); 1878-Aug., 1900 (v. 15-37). Note: v. 15, 16, 27 (1878, '79, '90) incomplete. N. Y., 1878-1900. 23 v., 16 x 11, unbound.

96 **BOOK REVIEWS** (monthly); Mar., 1898-Dec., '99 (v. 1-7). N. Y., 1898-99. 7 v., 9 x 6, unbound.

58 **BUILDER AND WOOD WORKER** (monthly); Dec., 1891-Feb., '98 (v. 27-29). Note: v. 27, Nos. 1-11; v. 29, Nos. 3-12 wanting. N. Y., 1891-98. 3 v., 14 x 11, unbound.

89 **BUILDING** (weekly); 1886-89 (v. 4-11). N. Y., 1886-89. 8 v., 14 x 9, unbound.

105 **BUILDING ADVERTISER** (monthly); 1889 (v. 1). Note: Incomplete. San Fran., 1889. 1 v., 13 x 10, unbound.

28 **BULLETIN OF THE UNIVERSITY OF WISCONSIN, ENGINEERING SER.**; 1894-96 (v. 1). Madison, 1894-96. 1 v., il., 10 x 6, unbound.

101 **CALIFORNIA ARCHITECT AND BUILDING NEWS** (monthly); 1898-99 (v. 19-20). Note: v. 19, Nos. 1, 4 (Jan., Apr., 1898) wanting. San Fran., 1898-99. 2 v., 14 x 10, unbound.

8 **CASSIER'S MAGAZINE** (monthly); 1891-Oct., 1900 (v. 1-18). N. Y., 1891-1900. 18 v., il., por., 10 x 7, unbound.

99 **CITY GOVERNMENT** (monthly); 1898-99 (v. 4-7). Note: v. 5 (July-Dec., 1898) incomplete. N. Y., 1898-99. 4 v., 12 x 9, unbound.

17 **CITY RECORD** (daily); 1876-June, '77, 1884-86 (v. 4-v. 5, Pt. 2; v. 12-14). Note: v. 13, 14 (1885, '86) incomplete. N. Y., 1876-86. 5 v. in 9, 16 x 11, unbound. no title-page.

50 **COLBURN'S RAILROAD ADVOCATE** (weekly); May, 1855-56 (v. 2). N. Y., 1855-56. 1 v., 19 x 14, ¾ ro.

COLLIERY ENGINEER. See *Mines and Minerals.*

24 **COMPASS, THE**: A monthly journal for engineers, surveyors, architects, draughtsmen, and students; 1891-94 (v. 1-3). N. Y., 1892-94. 3 v., il., 9 x 6, cl., unbound.

97 **COMPRESSED AIR** (monthly); Mar.-July, 1896 (v. 1). Note: Incomplete. N. Y., 1896. 1 v., 9 x 6, unbound.

44 **DIGEST OF PHYSICAL TESTS AND LABORATORY PRACTICE** (quarterly); 1896 (v. 1). Phil., 1896. 1 v., il., 9 x 6, pap.

67 **ELECTRIC POWER** (monthly); 1889-96 (v. 1-9). Note: v. 1, 4, 9 (1889, '92, '96) incomplete. N. Y., 1889-96. 9 v., 10 x 7, 12 x 9, unbound.

66 **ELECTRICAL ENGINEER** (weekly); 1890-May, '99 (v. 9-27). Note: In May, 1899 consolidated with *Electrical World*, the new publication being called *Electrical World and Engineer*. v. 22 (July-Dec., 1896) wanting. N. Y., 1890-99. 18 v., 12 x 9, unbound.

69 **ELECTRICAL ENTERPRISE** (weekly); 1891 (v. 2). N. Y., 1891. 1 v., 12 x 9, unbound.

73 **ELECTRICAL WORLD AND ENGINEER** (weekly); 1885-June, 1900 (v. 5-35). Note: Prior to May, 1899, title read *Electrical World*; at that date consolidated with *Electrical Engineer* under the present title. v. 11, 12, 14 (1888, July-Dec., '89) incomplete; v. 6-8, 10, 13 (July-Dec., 1885, '86, July-Dec., '87, Jan.-June, '89) wanting. N. Y., 1885-1900. 26 v., 13 x 10, unbound.

76 **ELECTRICITY** (weekly); July, 1894-1900 (v. 7-18). N. Y., 1894-1900. 12 v., 14 x 11, unbound.

4 **ENGINEERING AND MINING JOURNAL** (weekly); 1879-99 (v. 27-67). N. Y., 1879-99. 40 v. in 32, il., 13 x 10, ¾ mor.

22 **ENGINEERING MAGAZINE** (monthly); 1891-Sept., 1900 (v. 1-19). N. Y., 1891-1900. 19 v., il., 10 x 7, unbound.

56 **ENGINEERING MECHANICS** (monthly); 1892-98. Note: Volume for 1894 incomplete. Phil., 1892-98. 7 v., 12 x 9, unbound.

2 **ENGINEERING NEWS AND AMERICAN RAILWAY JOURNAL** (weekly); Jan., 1879-June, '99 (v. 6-41). Note: Title of v. 6-9 (Jan., 1879-May, '82) reads *Engineering News*; v. 9-19 (May, 1882-Mar. 3d, '88), *Engineering News and American Contract Journal*. Since 1884 two volumes have been issued yearly. v. 6, 11 incomplete. N. Y., 1879-99. 36 v., il., 13 x 10, ½ mor.

2*a* ——General index from Apr., 1874 to Dec. 27th, 1890, inclusive. N. Y., 1891. 6 + 118 pp., 9 x 6, pap.

Ta3 UNITED STATES—(*Continued*).

1 **ENGINEERING RECORD** (weekly); 1877-99 (v. 1-39). Note: Title of v. 1-3 (1877-Nov., '80) reads *The Plumber and Sanitary Engineer;* v. 4-14 (Dec., '80-Nov., '86), *Sanitary Engineer;* v. 14-16 (Nov., '86-Oct., '87), *Sanitary Engineer and Construction Record;* v. 16-23 (Oct., '87-Dec., '90), *Engineering and Building Record and Sanitary Engineer.* v. 1-3 (1877-80) incomplete. Published monthly prior to No. 3 of v. 7. N. Y., 1877-99. 39 v., il., 13 x 10, ¾ mor.

1*a* ——Index to matter pertaining to sewerage and sewage disposal in volumes 5-17, Dec., 1881-June, 1888; comp. by Dana C. Barber. N. Y., 1889. 149 pp., 9 x 6, cl.

1*b* ——Public water supplies; their collection, storage, distribution, engineering, plant, purity and analysis: A digest and index to volumes 5-18 of the *Engineering and Building Record;* comp. by D. Walter Brown. N. Y., 1890. 242 pp., 9 x 6, bds.

43 **GOOD ROADS** (monthly); 1892-Mar., '95 (v. 1-7). Note: v. 5, No. 3; v. 6, No. 4 (Mar.-Oct., 1894) wanting. Bost., 1892-95. 7 v., il., 9 x 6, pap.

13 **HUNT'S MERCHANTS' MAGAZINE AND COMMERCIAL REVIEW** (monthly); 1851-59 (v. 24-41). Note: v. 29, 31 (July-Dec., 1853, July-Dec., '54) wanting. N. Y., 1851-59. 16 v., 9 x 6, ½ skiv.

98 **INDUSTRIAL AMERICAN** (bi-monthly); 1891-92 (v. 1-2). Note: Incomplete. Lexington, N. Y., 1891-92. 2 v., 14 x 10, unbound.

65 **IRON AGE** (weekly); 1873-June, 1900 (v. 11-65). Note: v. 11, 17, 20, 23, 26, 29-30 (Jan.-June, 1873; Jan.-June, '76; July-Dec., '77; Jan.-June, '79; July-Dec., '80; '82) incomplete. v. 33 (Jan.-June, 1884) wanting. N. Y., 1873-1900. 54 v., 19 x 13, 13 x 9, unbound.

114 **IRON PRODUCTION AND UTILIZATION** (monthly); 1888-June, '90 (v. 11-15). Note: v. 15 (Jan.-June, 1890) incomplete. Phil., 1888-90. 5 v., 14 x 9, unbound.

75 **IRRIGATION AGE** (monthly); 1891-94 (v. 1-8). Note: v. 6-8 (July-Dec., 1893, '94) incomplete. Denver, 1891-94. 8 v., 14 x 10, unbound.

34 **JOURNAL OF SPECULATIVE PHILOSOPHY** (quarterly); 1884-85 (v. 18-19). N. Y., 1884-85. 2 v., 9 x 6, ½ mor.

23 **JOURNAL OF THE UNITED STATES ARTILLERY** (bi-monthly); 1892-June, 1900 (v. 1-13). Note: Published quarterly 1892-95. Fort Monroe, Va., 1892-1900. 13 v., il., 10 x 7, unbound.

13 **JOURNAL OF THE WORCESTER POLYTECHNIC INSTITUTE** (bi-monthly); Nov., 1897-July, '99 (v. 1-2). Worcester, 1898-99. 2 v., pl., 9 x 6, unbound.

11 **KANSAS UNIVERSITY QUARTERLY**; 1892-99 (v. 1-8). Lawrence, Kan., 1892-99. 8 v., il., pl., 10 x 6, unbound.

38 **LIBRARY JOURNAL** (monthly): Official organ of the Library Associations of America and of the United Kingdom; 1878-94 (v. 3-19). Note: v. 3, Nos. 2-8, 10; v. 4, No. 1 (Apr.-Oct., Dec., 1878; Jan., '79) wanting. N. Y., 1878-94. 17 v., 10 x 8, unbound.

77 **LIGHT, HEAT AND POWER** (monthly); 1885-June, '94 (v. 1-16). Note: v. 3 (1887) incomplete; v. 2, 13, 15 (1886, July-Dec., '92, July-Dec., '93) wanting. Phil., 1885-94. 13 v., 13 x 9, unbound.

45 **LITERARY NEWS**: A monthly journal of current literature; 1890-94 (new ser., v. 11-15). Note: v. 12, No. 7; v. 13, No. 12; v. 14, Nos. 7, 9, 10; v. 15, Nos. 3, 7 (July, 1891; Dec., '92; July, Sept., Oct., '93; Mar., July, '94) wanting. N. Y., 1890-94. 5 v., il., 10 x 7, unbound.

33 **LOCOMOTIVE, THE** (monthly); 1880-99 (new ser., v. 1-20). Hartford, 1880-99. 20 v., il., 9 x 6, unbound.

78 **LOUISIANA PLANTER** (weekly); 1890-June, 1900 (v. 4-24). New Orleans, 1890-1900. 21 v., 12 x 9, unbound.

120 **MACHINERY** (monthly); Sept., 1899-Aug., 1900 (v. 6). N. Y., 1899-1900. 1 v., 13 x 9, unbound.

7 **MAGAZINE OF AMERICAN HISTORY** (monthly); May, 1883-Dec., '89 (v. 9-22). Note: v. 9, Nos. 1-4 wanting. N. Y., 1883-89. 14 v., il., por., 10 x 7, unbound.

93 **MANUFACTURER** (monthly); 1882-85 (v. 3-10). Holyoke, 1882-85. 8 v., 12 x 9, unbound.

16 **MANUFACTURER AND BUILDER** (monthly); 1869-95 (v. 1-27). Note: v. 27 (1895) incomplete; v. 8 (1876) wanting. N. Y., 1869-95. 26 v., il., 13 x 10, cl.

57 **MANUFACTURERS' RECORD** (weekly); 1892-July, 1900 (v. 21-37). Balt., 1892-1900. 17 v., 15 x 9, unbound.

68 **MECHANICAL NEWS** (bi-monthly); 1882-93 (v. 12-23). Note: v. 12, 23 (1882-83, '93) incomplete. N. Y., 1882-93. 12 v., 11 x 8, unbound.

109 **MECHANICS** (monthly); 1882-84, '89-91 (v. 1-3, 5, 11-13). Note: At first published weekly; all volumes incomplete. Phil., 1882-91. 7 v., 12 x 9, unbound.

33 **METALLURGICAL REVIEW** (monthly); 1877-Apr., '78 (v. 1-2). Note: v. 2, Nos. 3-6 wanting. N. Y., 1877-78. 2 v., il., 9 x 6, ½ mor.

20 **METROPOLITAN MAGAZINE** (monthly); Jan.-June, 1839 (v. 7). Amer. ed. N. Y., 1839. 1 v., 10 x 6, ¾ sh.

Ta3 UNITED STATES—(*Continued*).

70 **MINES AND MINERALS** (monthly); Aug., 1891–July, 1900 (v. 12–20). Note: Published previous to Aug., 1899 as *Colliery Engineer*. Scranton, 1891-1900. 9 v., 12 x 9, 15 x 11, unbound.

95 **MODERN MACHINERY** (monthly); July, 1898–June, 1900 (v. 4-7). Chic., 1898–1900. 4 v., 11 x 8, unbound.

107 **MONTHLY BULLETIN OF THE FIDELITY AND CASUALTY CO. OF NEW** York; Nov., 1897-Dec., '99 (v. 3–4). Note: Volumes incomplete. N. Y., 1897-99. 2 v., 11 x 9, 10 x 7, unbound.

115 **MONTHLY SUMMARY OF COMMERCE AND FINANCE OF THE UNITED** States; July, 1892–June, '99. Wash., 1892-99. 7 v., 11 x 9, unbound.

91 **MONTHLY WEATHER REVIEW**; 1887-99. Note: v. 24 (1896) incomplete. Wash., 1887-99. 13 v., 12 x 10, unbound.

41 **MUNICIPAL AFFAIRS** (quarterly); 1897-99 (v. 1–3). Note: v. 1, Nos. 3–4 (Sept., Dec., 1897) wanting. N. Y., 1897-99. 3 v., 9 x 6, unbound.

55 **MUNICIPAL AND RAILWAY RECORD** (monthly); Dec., 1898–June, 1900 (v. 3–6). Note: v. 3, Nos. 1–5 wanting. N. Y., 1898-1900. 4 v., il., 13 x 10, unbound.

83 **NATIONAL CAR BUILDER** (monthly); 1880–83 (v. 11–14). Note: v. 11, 14 (1880, '83) incomplete. N. Y., 1880–83. 4 v., 13 x 10, unbound.

80 **NATIONAL PROVISIONER** (weekly); 1893–95 (v. 8–12). Note: v. 8 (1893) incomplete. N. Y., 1893-95. 5 v., 12 x 9, unbound.

104 **OFFICIAL GAZETTE OF THE UNITED STATES PATENT OFFICE** (weekly); 1872–June, 1900 (v. 1-91). Note: v. 13 (Jan.–June, 1878) incomplete. v. 6–7, 10–11, 14–20, 44–51 (July, 1874–June, '75; July, '76–June, '77; July, '78–Dec., '81; July, '88–June, '90) wanting. Wash., 1872–1900. 72 v., il., 11 x 7, unbound.

98 **OUR ANIMAL FRIENDS** (monthly); Sept., 1896–Aug., 1900 (v. 24–27). Note: v. 25, No. 5; v. 26, No. 2 (Jan., Oct., 1898) wanting. N. Y., 1896-1900. 4 v., 11 x 9, unbound.

100 **OUR DUMB ANIMALS** (monthly); 1897–98 (v. 29–32). Note: v. 30–32 (1898–99) incomplete. Bost., 1897-99. 4 v., 12 x 10, unbound.

39 **PAVING AND MUNICIPAL ENGINEERING** (monthly); 1893–96 (v. 4–11). Note: v. 4, Nos. 2, 3 (Feb., Mar., 1893) wanting. Indianapolis, 1893–96. 8 v., il., 10 x 7, unbound.

46 **POLYTECHNIC, THE** (monthly); Nov., 1889–June, '99 (v. 6–15). Note: No numbers published during July and Aug. v. 6, Nos. 1–2, 4–10; v. 7, Nos. 1–3 (Sept.–Oct., Dec., 1889; Jan.–Nov., '90) wanting. Troy, 1889–99. 10 v., 11 x 8, unbound.

84 **POLYTECHNIC REVIEW** (weekly); 1876–78 (v. 1–6). Note: In Jan., 1879 incorporated with the *Engineering and Mining Journal*; each volume incomplete. Phil., 1876–78. 6 v., 16 x 12, unbound.

29 **POPULAR SCIENCE MONTHLY**; 1872-79 (v. 1–v. 16, No. 2). Note: Nos. 29, 39–41, 55 (Sept., 1874, July-Sept., '75, Nov., '76) wanting. N. Y., 1872-79. 16 v., il., 9 x 6, unbound.

30 ——Supplement (monthly); 1877–78 (Nos. 2-20). Note: Nos. 9, 11, 13, 17 (Jan., Mar., May, Sept., 1878) wanting. N. Y., 1877-78. 15 v., 9 x 6, unbound.

103 **PUBLIC IMPROVEMENTS** (semi-monthly); May, 1899-Apr., 1900 (v. 1–2). Note: Incomplete. N. Y., 1899-1900. 2 v., 12 x 9, unbound.

79 **RAILROAD CAR JOURNAL** (monthly); 1893–99 (v. 3–9). Note: v. 3 (1893) incomplete. N. Y., 1893-99. 7 v., 12 x 9, unbound.

3 **RAILROAD GAZETTE** (weekly); 1871–98 (v. 3–30). Note: v. 3–4 incomplete. N. Y., 1871-98. 28 v., il., 15 x 11, ¾ mor.

62 **RAILWAY AGE** (weekly); 1878-June, 1900 (v. 3–29). Note: v. 3, 4, 6, 14 (1878, '79, '81, '89) incomplete; v. 20 (1895) wanting. Chic., 1878-1900. 26 v., 15 x 11, unbound.

74 **RAILWAY MASTER MECHANIC** (monthly); 1886–99 (v. 9–23). Note: v. 10–12 (1887–89) wanting. Chic., 1886-99. 12 v., 15 x 11, 10 x 7, unbound.

54 **RAILWAY MONITOR**: A monthly journal of general railroad intelligence; 1874 (v. 2). N. Y., 1874. 1 v., 13 x 9, ¾ ro.

86 **RAILWAY REPORTER** (monthly); 1880 (v. 1). Pittsburg, 1880. 1 v., 13 x 9, unbound.

61 **RAILWAY REVIEW** (weekly); 1878–99 (v. 18–39). Note: v. 18–21, 30–31, 33–37 (1878–81, '90–91, '93–97) incomplete. Chic., 1878-99. 22 v., 16 x 11, unbound.

59 **RAILWAY WORLD** (weekly); 1876–99 (v. 2–25). Note: v. 2–5, 9, 21–23 (1876–79, '83, '95–97) incomplete. Phil., 1876-99. 24 v., 13 x 9, unbound.

121 **ROSE TECHNIC** (monthly); Oct., 1897-June, '99 (v. 7–8). Terre Haute, 1897-99. 2 v., 11 x 8, unbound.

82 **SANITARIAN** (weekly); 1883 (v. 9). N. Y., 1883. 1 v., 11 x 8, unbound.

52 **SANITARY ERA; OR, PROGRESSIVE HEALTH JOURNAL** (semi-monthly); 1887–89 (v. 2–3). N. Y., 1887–89. 2 v., 10 x 8, cl.

9 **SCHOOL OF MINES QUARTERLY**: A journal of applied science; 1880–July, '99 (v. 1–20). Note: v. 1, Nos. 1, 4 (Nov., 1879, May, '80) wanting. N. Y., 1880–99. 20 v., il., 9 x 6, unbound.

Ta3 UNITED STATES—(*Continued*).

81 **SCIENCE** (weekly): An illustrated journal; 1883–June, '91 (v. 1–17). Note: v. 17 Jan.–June, 1891) incomplete. Cambridge, 1883–91. 17 v., il., 10 x 7, unbound.

116 **SCIENTIFIC AMERICAN** (weekly): An illustrated journal of art, science, and mechanics; May 1850–June, 1900 (old ser., v. 5–14; new ser., v. 1–82). Note: Old ser., v. 5 (1850); new ser., v. 34, 35, 39 (1876, July–Dec., '78) incomplete. Old ser., v. 7–9, 12 (Sept., 1851–54, Sept., '56–57); new ser., v. 13–14, 20–33, 36–38, 76 (July, 1865–June, '66, '69–75, '77, Jan.–June, '78, Jan.–June, '97) wanting. N. Y., 1850–1900. 68 v. in 60, il., 16 x 11, ½ sh.

118 ——Building edition (monthly): July, 1889–99 (v. 8–27). Note: v. 27, Nos. 4–6 wanting. N. Y., 1889–99. 20 v., il., 16 x 11, unbound.

117a ——Supplement: Catalogue of valuable papers. N. Y., 1897. 2 v., 11 x 8, pap., cl.

117 ——Supplement (weekly): 1876–June, 1900 (v. 1–49). Note: v. 3–11, 13, 15, 19–20 (1877–June, '81, Jan.–June, '82, Jan.–June, '83, '85) wanting. N. Y., 1876–1900. 36 v., il., 16 x 10, unbound.

119 **STEAM ENGINEERING** (monthly); Sept., 1899–1900 (v. 10). N. Y., 1899–1900. 1 v., il., 13 x 9, unbound.

36 **STEVENS INDICATOR** (quarterly); 1888–99 (v. 5–16). Note: v. 5, Nos. 1–3; v. 16, No. 2 (Jan.–July, 1888, Apr., '99) wanting. Hoboken, 1888–99. 12 v., il., 10 x 7, unbound.

40 **STONE**: An illustrated magazine issued monthly; Feb.–Apr., Je., Jl., Oct., Dec., 1893; Jan., Mar., '94–Apr., '95; Aug., Nov., '97; May, '99–June, 1900 (v. 6, Nos. 3–5; v. 7, Nos. 1, 2, 5; v. 8, Nos. 1–2, 4–6; v. 9–v. 10, No. 5; v. 15, Nos. 3, 6; v. 18, No. 6; v. 19–20). N. Y., 1893–1900. 9 v., il., 10 x 7, unbound.

94 **STOWELL'S PETROLEUM REPORTER** (monthly); 1890–93 (v. 19–22). Pittsburg, 1890–93. 4 v., 12 x 9, unbound.

47 **STREET RAILWAY JOURNAL** (monthly); Nov., 1884–99 (v. 1–15). N. Y., 1884–99. 15 v., il., 12 x 9, ½ ro. no title-page.

25 **TECHNIC, THE**: The annual of the Engineering Society of the University of Michigan; 1888–94 (old ser., Nos. 4–10). Note: Nos. 8–9 (1892–93) wanting. Ann Arbor, 1888–94. 5 v., il., 9 x 6, unbound.

81 **TECHNIKER, DER** (semi-monthly); 1881–87 (v. 4–9). N. Y., 1881–87. 6 v., 14 x 10, unbound.

26 **TECHNOGRAPH, THE**; published annually by the Association of Engineering Societies of the University of Illinois; 1889–1900 (Nos. 4–14). Note: Nos. 7, 10, 11, 13 (1892, '95–97, '98–99) wanting. Champaign, 1890–1900. 7 v., il., 9 x 6, unbound.

87 **TECHNOLOGIST** (monthly); 1870 (v. 1). N. Y., 1870. 1 v., 14 x 9, unbound.

111 **TECHNOLOGY ARCHITECTURAL REVIEW** (monthly); 1888–90 (v. 1–3). Note: Published by the Massachusetts Institute of Technology. Continued as *Architectural Review*. Bost., 1888–90. 3 v., 14 x 11, unbound.

35 **TECHNOLOGY QUARTERLY**; 1887–99 (v. 1–12). Bost., 1887–99. 12 v., il., 10 x 7, unbound.

48 **TECHNOLOGY REVIEW** (quarterly); 1899 (v. 1). Bost., 1899. 1 v., il., 10 x 7, unbound.

27 **TRANSIT, THE**; published semi-annually by the State University of Iowa; ed. by the Engineering Society; Dec., 1890, Jan., '95, June, '96 (v. 1, No. 2; v. 3, No. 1; v. 4, No. 1). Iowa City, 1890–96. 3 v., il., 9 x 6, unbound.

85 **TRAVELLERS' RECORD** (monthly); 1886–99 (v. 22–35). Note: v. 22 (1886) incomplete; v. 24, 27, 29–32 (1888, '91, '93–95) wanting. Hartford, 1886–1900. 8 v., 12 x 10, unbound.

49 **UNITED STATES GOVERNMENT PUBLICATIONS MONTHLY CATALOGUE**; 1891–93 (v. 7–9). Wash., 1891–93. 3 v., 10 x 6, unbound.

19 **UNIVERSITY OF TENNESSEE RECORD** (bi-monthly); 1898–99 (Nos. 1–11). Knoxville, 1898–99. 2 v., il., 9 x 6, unbound.

5 **VAN NOSTRAND'S ENGINEERING MAGAZINE** (monthly); 1869–86 (v. 1–35). Note: In 1887 consolidated with the *American Railroad Journal* under the title *Railroad and Engineering Journal*, now *American Engineer and Railroad Journal*. N. Y., 1869–86. 35 v. in 36, il., 10 x 6, ½ cf.

88 **WATER AND GAS JOURNAL** (monthly); 1883 (v. 1). Phil., 1883. 1 v., 14 x 10, unbound.

15 **WORKSHOP, THE**: A monthly journal devoted to progress of the useful arts; 1868–70 (v. 1–3). N. Y., 1868–70. 3 v., il., 12 x 10, ½ mor.

Ta4 WEST INDIES.

1 **GACETA DE LOS FERROCARRILES DE LA ISLA DE CUBA** (weekly); Apr., 1894–Mar., '95 (v. 2–3). Note: Incomplete. Habana, 1894–95. 2 v., 13 x 9, unbound.

Tb1 ARGENTINE REPUBLIC.

2 **INGENIERIA, LA** (semi-monthly): Órgano oficial del Centro Nacional de Ingenieros; Aug., 1897–Dec., '99 (v. 1–3). Note: Prior to Apr., 1899 published monthly; v. 2, Nos. 6–10 (Jan.–May, 1898) wanting. Buenos Aires, 1897–99. 3 v., il., 14 x 10, unbound.

1 **INGENIERO CIVIL, EL** (semi-monthly): Organo oficial de la Sociedad de Ingenieros Civiles de la República Argentina; Mar., 1888–Feb., '89 (v. 1). Note: No. 16 (Oct 15th, 1888) wanting. Buenos Aires, 1888–89. 1 v., 15 x 11, unbound.

Tb3 BRAZIL.

1 **REVISTA DOS CONSTRUCTORES** (monthly); 1886 (v. 1). Rio de Janeiro, 1886. 1 v., 15 x 11, unbound.

Tb5 COLOMBIA.

1 **ANALES DE INGENIERÍA** (monthly): Órgano de la Sociedad Colombiana de Ingenieros; 1887–98 (v. 1–10). Bogóta, 1888–98. 10 v., il., 10 x 6, unbound.

Tb6 ECUADOR.

1 **ANALES DE LA UNIVERSIDAD DE QUITO** (monthly); Apr., 1893–Mar., '95 (v. 8–12). Quito, 1893–95. 5 v., 10 x 7, unbound.

Tb9 PERU.

1 **ANALES DE CONSTRUCCIONES CIVILES Y DE MINAS DEL PERU**; publicados por la Escuela de Ingenieros de Lima; 1880–87 (v. 1–6). Note: Published irregularly. Lima, 1880–87. 6 v., pl., 9 x 6, unbound.

2 **ANALES DEL CUERPO DE INGENIEROS DEL PERU** (semi-annually); 1874 (v. 1–2). Lima, 1874. 2 v., pl., 11 x 7, unbound.

3 **BOLETIN DE MINAS, INDUSTRIA Y CONSTRUCCIONES** (monthly); publicado por la Escuela Especial de Ingenieros; 1885–99 (v. 1–15). Note: v. 4–6, 9–12 (1888–90, '93–95) incomplete; v. 13–14 (1897–98) wanting. Lima, 1885–1900. 13 v., 14 x 9, unbound.

Tb11 VENEZUELA.

1 **REVISTA CIENTIFICA MENSUAL DE LA UNIVERSIDAD DE VENEZUELA**; 1888–89 (v. 1–2). Note: Incomplete. Caracas, 1888–89. 2 v., 13 x 10, unbound.

PERIODICALS—EUROPE.

Td1 AUSTRIA.

2 **ALLGEMEINE BAUZEITUNG MIT ABBILDUNGEN** (bi-monthly); 1874–75 (v. 39–40). Wien, 1874–75. 2 v., il., 18 x 12, bds.

1 **MITTHEILUNGEN ÜBER GEGENSTÄNDE DES ARTILLERIE- UND GENIE-Wesens** (monthly); 1877–99. Note: v. for 1881 and 1884, Nos. 1–5, 7, 8, 12 wanting. Wien, 1877–99. 22 v., il., 10 x 6, unbound.

4 **STUMMER'S INGENIEUR** (bi-monthly): Internationales Organ für das Gesammtgebiet des technischen Wissens; 1877 (v. 5). Wien, 1877. 1 v., 14 x 11, unbound.

3 **WIENER FEUERWEHR-ZEITUNG** (semi-monthly): Populäre Blätter für Feuerlösch wesen. Wasserleitungs- und Pumpen-Anlagen; redigirt von Moriz Willfort; 1874–75. Wien, 1874–75. 2 v., il., pl., 13 x 10, bds.

Td2 BELGIUM.

1 **ANNALES DES TRAVAUX PUBLICS DE BELGIQUE** (bi-monthly); 1896–99 (ser. 2, v. 1–4). Bruxelles, 1896–99. 4 v., il., 10 x 6, unbound.

Td3 DENMARK.

1 **INGENIOREN** (semi-weekly): udgivet af Dansk Ingeniorforening; 1895–96, '98–99 (v. 4–5, 7–8). Note: v. 8 (1899) incomplete. Kobenhavn, 1895–99. 4 v., 13 x 9, unbound.

Td4 FRANCE.

3 **ANNALES DES MINES** (semi-annually); 1841 (ser. 3, v. 19–20). Paris, 1841. 2 v., 8 x 5, ¾ mor.

7.3 **ANNALES DES PONTS ET CHAUSSÉES**: Lois, décrets, arrêtés et autres actes concernant l'administration et le personnel des Ponts et Chaussées et documents administratifs concernant les pays étrangers (monthly): 1841, '44–48, '66–73, '94–99 (ser. 2, v. 1, 5–8; ser. 4, v. 6–10; ser. 5, v. 1–3; ser. 7, v. 7–9). Paris, 1841–99. 17 v., 9 x 6, ¾ mor.

Td4 FRANCE—(*Continued*).

7.1 ——Mémoires et documents relatifs à l'art des constructions et au service de l'ingénieur (quarterly); 1831-99 (ser. 1, 1831-40; ser. 2, 1841-50; ser. 3, 1851-60; ser. 4, 1861-70; ser. 5, 1871-80; ser. 6, 1881-90; ser. 7, 1891-99). Paris, 1831-99. 138 v. in 136, 9 x 6, ¾ sh., ¾ mor.

7.2 ——Personnel (yearly); 1845-1900. Note: v. for 1847, '49-50, '52-58, '61-65, '67-68 wanting. Paris, 1845-1900. 39 v., 9 x 6, ¾ mor., pap.

2 **ANNALES DU CONSERVATOIRE IMPÉRIAL DES ARTS ET MÉTIERS** (quarterly); 1861-79 (v. 1-11). Note: v. 11, Nos. 2-4 wanting. Paris, 1861-79. 11 v., il., 9 x 6, unbound.

12 **ANNALES INDUSTRIELLES** (weekly); 1876 (v. 8). Paris, 1876. 1 v., 13 x 9, unbound.

1 **ANNALES MARITIMES ET COLONIALES;** 1846 (v. 94-98). Paris, 1846. 5 v., 8 x 5, ½ skiv.

11 **BULLETIN DU CANAL INTEROCEANIQUE** (semi-monthly); 1880-88, '92 (v. 1-9, 13). Note: Each volume incomplete. Paris, 1880-92. 10 v., 12 x 9, unbound.

13 **CHARBON, LE** (weekly): Journal des mines et de toutes les industries métallurgiques; 1879 (v. 6-7). Paris, 1879. 2 v., 12 x 9, unbound.

9 **EXPORTATION FRANÇAISE, L'** (monthly): Journal du commerce maritime et des colonies; 1886-88 (v. 11-13). Note: Each volume incomplete. Paris, 1886-88. 3 v., 11 x 8, unbound.

5 **GÉNIE CIVIL, LE:** Revue générale hebdomadaire des industries françaises et étrangères; Nov., 1880-Apr., 1900 (v. 1-36). Note: From 1880 to Oct., 1883 published semi-monthly. Paris, 1881-1900. 36 v. in 28, il., 14 x 11, ½ ro.

17 **MÉTALLURGIE, LA, ET LA CONSTRUCTION MECANIQUE** (weekly); 1879 (v. 10). Paris, 1879. 1 v., 15 x 11, unbound.

6 **NOUVELLES ANNALES DE LA CONSTRUCTION** (monthly); 1855-99 (v. 1-21; ser. 3, v. 1-8; ser. 4, v. 1-10; ser. 5, v. 1-6). Note: ser. 1, v. 6, No. 2; ser. 3, v. 2-5 (Feb., 1860, '77-80) wanting. Paris, 1855-99. 41 v. in 33, il., 15 x 11, ½ mor.

4 **PORTEFEUILLE ÉCONOMIQUE DES MACHINES DE L'OUTILLAGE ET DU** matériel relatifs à la construction, aux chemins de fer, aux routes, aux mines, à la navigation, à la télégraphie, etc. (monthly); 1861, '81-99 (v. 6; ser 3, v. 6-16; ser. 4, v. 1-8). Paris, 1861-99. 20 v. in 16, il., 15 x 11. ½ mor.

16 **REVUE DE MÉCANIQUE** (monthly); 1897-June, 1900 (v. 1-6). Note: v. 3 (July-Dec., 1898) incomplete. Paris, 1897-1900. 6 v., 13 x 9, unbound.

15 **REVUE GENÉRALE DES CHEMINS DE FER ET DES TRAMWAYS** (monthly); 1878-99 (v. 1-22). Paris, 1878-99. 22 v., 13 x 9, unbound.

10 **REVUE GÉNÉRALE DES SCIENCES PURES ET APPLIQUÉES** (semi-monthly); 1892-98 (v. 3-9). Paris, 1892-98. 7 v., 12 x 8, unbound.

8 **REVUE TECHNIQUE** (semi-monthly): Annales des travaux publics et des chemins de fer; 1880-99 (v. 1-20). Paris, 1880-99. 20 v., 14 x 11, unbound.

14 **REVUE UNIVERSELLE DES INVENTIONS NOUVELLES** (monthly); 1892-93. Note: Volume for 1893 incomplete. Paris, 1892-93. 2 v., 11 x 8, unbound

18 **SCIENCE ET PROGRÈS** (semi-monthly): Revue universelle; 1892-93 (v. 5-6). Note: Prior to 1893 published monthly. Both volumes incomplete. Paris, 1892-93. 2 v., 11 x 8, unbound.

Td5 GERMANY.

2 **ANNALEN DER PHYSIK UND CHEMIE;** herausgegeben von J. C. Poggendorff (monthly); 1846-49 (v. 67-77). Note: v. 77 incomplete. v. 73-75 (1848) wanting. Leipzig, 1846-49. 8 v. in 7, il., 9 x 5, ½ skiv.

5 **ARCHIV FÜR EISENBAHNWESEN** (semi-monthly); Mar., 1890-Dec., '93, Jan.-Feb., '94. Note: Pt. 1, 1890; Pts. 5-6, '91 wanting. Ber., 1890-94. 5 v., 9 x 6, unbound.

11 **CENTRALBLATT DER BAUVERWALTUNG** (weekly); herausgegeben im Ministerium der Öffentlichen Arbeiten; 1881-96 (v. 1-16). Ber., 1881-96. 16 v., 14 x 10, unbound.

9 **CIVILINGENIEUR** (8 Nos. per year): Organ des Sächsischen Ingenieur- und Architekten-Vereins; 1884-96 (v. 30-42). Note: v. 30 (1884) incomplete. Leipzig, 1884-96. 13 v., 12 x 9, unbound.

15 **DEUTSCHE ALLGEMEINE POLYTECHNISCHE ZEITUNG** (weekly); 1880, '82 (v. 8, 10). Ber., 1880-82. 2 v., 15 x 10, unbound.

10 **DEUTSCHE BAUZEITUNG** (semi-weekly): Verkündigungsblatt des Verbandes deutscher Architekten- und Ingenieur-Vereine; 1877-99 (v. 11-33). Note: v. 11, 23 (1877, '89) incomplete. Ber., 1877-99. 23 v., 13 x 9, unbound.

18 **DEUTSCHE INDUSTRIE-ZEITUNG** (weekly); June-Dec., 1865 (Nos. 23-52). Chemnitz, 1865. 1 v., 13 x 10, unbound.

DINGLER'S POLYTECHNISCHE JOURNAL. See Polytechnisches Journal.

8 **GESUNDHEITS-INGENIEUR** (bi-monthly); 1893-94 (v. 16-17). München, 1893-94. 2 v., 13 x 10, unbound.

17 **JOURNAL FÜR DIE BAUKUNST** (quarterly); im zwanglosen heften, herausgegeben by A. L. Crelle; 1850-51 (v. 29-30). Ber., 1850-51. 2 v., il., 10 x 8, ¾ skiv.

Td5 GERMANY—(*Continued*).

7 **MITTHEILUNGEN AUS DEN KÖNIGLICHEN TECHNISCHEN VERSUCHS**-anstalten zu Berlin; herausgegeben im Auftrage der Königlichen Aufsichts-Kommission (quarterly); v. 3-4. Ber., 1885-86. 2 v., il., pl., tab., 11 x 7, unbound.

1 **POLYTECHNISCHES JOURNAL** (semi-monthly); Mar., 1870-Sept. '73 (v. 195-209). Note: v. 195, Nos. 1-4; v. 196-199; v. 200, Nos. 1, 3, 6; v. 201, Nos. 1-2, 4-5; v. 202, No. 6; v. 203, Nos. 1-2; v. 205, Nos. 4-5; v. 206, Nos. 2, 5, 6; v. 209, No. 4 (Jan.-Feb., 1870; Apr., 1870-Mar., 1871; Apr. No. 1, May No. 1, June No. 2, July, Aug. No. 2, Sept. No. 1, Dec. No. 2, 1871; Jan., Aug. No. 2, Sept. No. 1, Oct. No. 2, Dec., 1872; Aug. No. 2, 1873) wanting. Augsburg, 1870-73. 11 v., il., 9 x 6, unbound.

12 **SCHILLING'S JOURNAL FÜR GASBELEUCHTUNG UND WASSERVERSOR**-gung: Organ des Deutschen Vereins von Gas- und Wasserfachmännern; 1897-98 (v. 40-41). Note: v. 41 (1898) incomplete. München, 1897-98. 2 v., 14 x 10, unbound.

4 **STAHL UND EISEN** (semi-monthly): Zeitschrift für das deutsche Eisenhüttenwesen; 1890-99 (v. 10-19). Note: From 1890-91 issued monthly. Düsseldorf, 1890-99. 10 v., il., 11 x 7, unbound.

16 **UNIVERSAL-INDEX DER INTERNATIONALEN FACHLITERATUR** (weekly); 1894 (v. 1). Note: Incomplete. Leipzig, 1894. 1 v., 12 x 8, unbound.

14 **ZEITSCHRIFT FÜR BAUKUNDE** (8 Nos. per year); 1878-84 (v. 3-7). München, 1878-84. 7 v., 14 x 10, unbound.

3 **ZEITSCHRIFT FÜR BAUWESEN** (quarterly); 1876-99 (v. 26-49). Note: v. 46 (1896) incomplete; v. 27-30, 47-48 (1877-80, '97-98) wanting. Ber., 1876-99. 18 v. in 24, il., 14 x 10 (atlas 18 x 12), ½ mor.

Td6 GREAT BRITAIN.

42 **ARCHITECTURAL MAGAZINE AND JOURNAL OF IMPROVEMENT IN ARCHI**-tecture, building, and furnishing, and in the various arts and trades connected therewith; conducted by J. C. Loudon (monthly); 1834-38 (v. 1-5). Lond., 1834-38. 5 v., il., 9 x 6, ¾ mor.

14 **ARTIZAN, THE** (monthly); 1851-59 (v. 9-17). Lond., 1851-59. 9 v., il., 11 x 9, ¾ mor.

15 **ATHENÆUM** (weekly): Mar., 1850-June, '51. Note: Volumes incomplete. Lond., 1851(?) 2 v. in 1, 11 x 9, ½ sh.

33 **BRITISH ARCHITECT AND NORTHERN ENGINEER** (weekly); 1878 (v. 9). Manchester, 1878. 1 v., 15 x 10, unbound.

7 **BUILDER:** An illustrated weekly magazine: 1860-61, '73-June, '99 (v. 18-19, 31-76). Note: v. 32 (1874) incomplete. Lond., 1860-99. 48 v. in 49, il., 13 x 9, ½ mor.

12 **BUILDING NEWS** (weekly): 1870-71 (v. 19-20). Note: Plates only. Lond., 1870-71. 2 v., pl., 13 x 8, ½ ro.

6 **BUILDING NEWS AND ENGINEERING JOURNAL** (weekly); 1873-June, '99 (v. 24-76). Lond., 1873-99. 53 v., il., 13 x 9, ½ mor.

11 **CAMBRIDGE MATHEMATICAL JOURNAL** (monthly); 1844-45 (v. 4). Note: Incomplete. Cambridge, Eng., 1845. 1 v., 9 x 6, ½ mor.

31 **CAPITAL AND LABOR** (weekly); 1880 (v. 7). Lond., 1880. 1 v., 13 x 9, unbound.

16 **CHEMICAL GAZETTE;** or, Journal of Practical Chemistry in all its applications to pharmacy, art and manufactures (bi-monthly); 1849 (v. 7). Lond., 1849. 1 v., 9 x 6, ¾ sh.

17 **CHEMIST, THE:** A monthly journal of chemical and physical science; 1855-58 (new ser., v. 3-5). Lond., 1856-58. 3 v., 9 x 6, ¾ mor.

8 ——A monthly journal of chemical philosophy and of chemistry applied to the arts, manufactures, agriculture, and medicine, and record of pharmacy; Oct., 1849-Sept., '52 (new ser., v. 1-3). Lond., 1849-52. 3 v., 9 x 6, ¾ sh.

2 **CIVIL ENGINEER AND ARCHITECT'S JOURNAL** (monthly): Oct., 1837-68 (v. 1-31). Note: v. 31 incomplete. Lond., 1838-68. 33 v. in 31, il., 11 x 9, cl.

36 **COLLIERY GUARDIAN AND JOURNAL OF THE COAL AND IRON TRADES** (weekly); July, 1899-June, 1900 (v. 78-79). Lond., 1899-1900. 2 v., il., 17 x 11, unbound.

47 **COMMISSIONERS OF PATENTS' JOURNAL** (semi-weekly): 1854-83 (v. 1-38). Note: Ceased publication at the end of 1883, when its place was taken by the *Official Journal of the Patent Office*. v. 2, 9-12, 15-26 (1855, '62-65, '68-77) wanting. Lond., 1854-83. 21 v. in 22, 11 x 7, cl.

39 **DIPLOMATIC REVIEW** (monthly): 1857-70 (v. 5-18). Note: Formerly called *Free Press*. v. 5, 18 (1857, '70) incomplete. Lond., 1857-70. 14 v., 13 x 9, unbound.

19 **ELECTRICAL REVIEW** (weekly): 1877-June, 1900 (v. 5-46). Lond., 1877-1900. 42 v., 13 x 9, unbound.

35 **ELECTRICIAN** (weekly): 1879-83 (v. 3-11). Lond., 1879-83. 9 v., 12 x 9, unbound.

5 **ENGINEER, THE** (weekly): 1856-June, '99 (v. 1-87). Note: v. 1 (Jan.-June, 1856) incomplete. Lond., 1856-99. 87 v. il., 16 x 11, ½ mor.

1 **ENGINEERING:** An illustrated weekly journal; 1866-June, '99 (v. 1-67). Lond., 1866-99. 67 v., il., 14 x 10, ½ mor.

Td6 GREAT BRITAIN—(*Continued*).

20 **ENGINEERING REVIEW** (monthly); 1893-96 (v. 1-5). Note: Each volume incomplete. v. 3 (1895) wanting. Lond., 1893-96. 4 v., 11 x 9, unbound

FREE PRESS. See *Diplomatic Review.*

26 **GAS TRADE CIRCULAR AND REVIEW** (bi-monthly); 1879 (v. 4). Lond., 1879. 1 v., 15 x 9, unbound.

45 **ILLUSTRATED OFFICIAL JOURNAL (PATENTS)**, (weekly): 1889-99. Note: Formed by the combination of the *Official Journal of the Patent Office*, the *Illustrated Journal of Patented Inventions*, and the *Law Reports of Patent, Design and Trade Mark Cases. Reports of Patent, Design and Trade Mark Cases* now issued separately. Lond., 1889-99. 11 v., il., 11 x 7, unbound.

25 **INDUSTRIAL REVIEW** (weekly); 1887-88 (v. 16-17.) Note: Each volume incomplete. Lond., 1887-88. 2 v., 18 x 12, unbound.

9 **INDUSTRIES** (weekly): A journal of engineering, electricity and chemistry; July, 1886-Mar., 1900 (v. 1-28). Note: Combined with *Iron* in June, 1893, after which the title read *Industries and Iron*. Publication discontinued Mar., 1900. v. 1, 2 (July-Dec., 1886, Jan.-June, 1887) incomplete. Lond., 1886-1900. 28 v., il., 14 x 11, ½ mor.

41 **IRON** (weekly): 1873-June, '93 (v. 1-41). Note: In June, 1893, combined with *Industries*. v. 1 (Jan.-June, 1873) incomplete. Lond., 1873-93. 41 v., 15 x 10, unbound.

27 **IRON AND COAL TRADES REVIEW** (weekly): 1878-June, '79, 1898-June, 1900 (v. 16-18, 56-60). Lond., 1878-1900. 8 v., 16 x 11, unbound.

28 **IRON TRADE CIRCULAR** (weekly); 1879 (Nos. 759-784). Lond., 1879. 1 v., 15 x 10, unbound.

22 **IRONMONGER** (weekly); July, 1878-Mar., 1900 (v. 20-90). Note: v. 23, 24, 47, 48, 49, 55, 58-61, 64, 70 (1880, Apr.-Dec., '89, Apr.-June, '91, '92, July-Sept., '93, Jan.-Mar., '95 incomplete: v. 25-46, 62 (1881-88, Jan.-Mar., '89, Jan.-Mar., '93) wanting. Lond., 1878-1900. 48 v., 11 x 8, unbound.

18 **JOURNAL OF GAS LIGHTING** (weekly): 1882-June, 1900 (v. 39-75). Note: v. 48, 53, 57-59, 62, 71 (July-Dec., 1886, Jan.-June, '89, '91, Jan.-June, '92, July-Dec., '93. wanting. Lond., 1882-1900. 30 v., 13 x 9, unbound.

21 **MACHINERY MARKET** (monthly); 1889-91. Note: Incomplete. Lond., 1889-91. 3 v., 11 x 9, unbound.

10 **MATHEMATICAL MONTHLY, THE**; Oct., 1858-Sept., '59 (v. 1). Cambridge, 1859. 1 v., il., pl., 10 x 7, ¾ mor.

38 **MECHANICAL ENGINEER** (weekly): 1898-June, 1900 (v. 1-5). Manchester, 1898-1900. 5 v., 14 x 10, unbound.

29 **MECHANICAL WORLD** (weekly); July-Dec., 1886 (v. 22). Lond., 1886. 1 v., 15 x 11, unbound.

3 **MECHANICS' MAGAZINE, MUSEUM, REGISTER, JOURNAL, AND GAZETTE** (weekly); 1844-58 (v. 40-69). Note: v. 49-50, 52, 54-55, 57, 61, 64-65, 69 (Dec., 1848; May, 1849; June, 1850; Feb., July, 1851; Oct., 1852; Nov., 1854; Jan.-Aug., Oct.-Dec., 1856; July, Sept., Nov., 1858) wanting. Lond., 1844-58. 15 v. in 29, il., 9 x 6, ½ mor.

48 **MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE** (weekly); May-Dec., 1899 (v. 69). Lond., 1899. 1 v., 18 x 12, unbound.

32 **MINING WORLD AND ENGINEERING RECORD** (weekly); 1877, Jan.-June, '78, July-Dec., '80 (v. 12-14, 19). Note: v. 12, 19 (Jan.-June, 1877, July-Dec., '80) incomplete. Lond., 1877-80. 4 v., 13 x 9, unbound.

43 **NAUTICAL MAGAZINE AND NAVAL CHRONICLE**: A journal of papers on subjects connected with maritime affairs (monthly); 1847. Lond., 1847. 1 v., 9 x 6, ½ ro.

44 **OFFICIAL JOURNAL OF THE PATENT OFFICE** (weekly); 1884-June, '88. Note: In 1889 combined with the *Illustrated Journal of Patented Inventions*, and the *Law Reports of Patent, Design and Trade Mark Cases* under the title the *Illustrated Official Journal (Patents)*. 1886 incomplete. Lond., 1884-88. 9 v., 11 x 7, unbound.

24 **PRACTICAL ENGINEER** (weekly); 1887-90 (v. 1-4). Lond., 1887-90. 4 v., 12 x 9, unbound.

4 **PRACTICAL MECHANIC AND ENGINEER'S MAGAZINE** (monthly); 1841-46 (ser. 1, v. 1-4; ser. 2, v. 1-2). Glasgow, 1842-47. 6 v., il., 10 x 8, ¾ cf.

13 **PRACTICAL MECHANIC'S JOURNAL** (monthly); 1848-Oct., '69 (ser. 1, v. 1-7; ser. 2, v. 1-9; ser. 3, v. 2-5). Note: ser. 3, v. 5 incomplete. Glasgow, 1848-69. 20 v. in 12, il., pl., 11 x 9, ¾ sh.

23 **RAILWAY ENGINEER** (monthly); 1889-99 (v. 10-20). Lond., 1889-99. 11 v., 12 x 10, unbound.

37 **RAILWAY TIMES** (weekly): 1872-75 (v. 35-38). Note: v. 35, 38 (1872, '75) incomplete. Lond., 1872-75. 4 v., 12 x 9, unbound.

46 **REPORTS OF PATENT, DESIGN AND TRADE MARK CASES** (bi-monthly); 1897, '99 (v. 14, 16). Note: Issued as a part of the *Illustrated Official Journal (Patents)*, and from 1889-Mar., '94 bound with the same. Lond., 1897-99. 2 v 11 x 7, unbound.

Td6 GREAT BRITAIN—(*Continued*).

34 **REVIEW OF GAS AND WATER ENGINEERING** (weekly); 1880, July-Dec., '82 (v. 5, 9). Note: v. 5 (1880) incomplete. Lond., 1880-82. 2 v., 13 x 9, unbound.

40 **SYMONS'S MONTHLY METEOROLOGICAL MAGAZINE**; 1874 (v. 8). Note: July wanting. Lond.,'1874. 1 v., 8 x 5, unbound.

30 **TEXTILE MANUFACTURER** (monthly); 1879-80 (v. 5-6). Manchester, 1879-80. 2 v., 13 x 9, unbound.

Td7 HUNGARY.

2 **A MAGYAR MÉRNÖK-ÉS ÉPITÉSZ-EGYLET HETI ÉRTESITÖJE** (weekly); 1882-99 (v. 1-18). Note: v. 3, 12-13 (1884, '93-'94) wanting. Budapest, 1882-99. 15 v., 11 x 8, unbound.

1 **A MAGYAR MÉRNÖK-ÉS ÉPITESZ-EGYLET KÖZLÖNYE** (monthly); 1887-99 (v. 21-33). Note: v. 27 (1893) wanting. Budapest, 1887-99. 12 v., 13 x 10, unbound.

3 **ÉPITESZETI SZEMLE** (monthly); 1892-93. Budapest, 1892-93. 2 v., 13 x 10, unbound.

Td8 ITALY.

1 **GIORNALE DEL GENIO CIVILE** (monthly); Apr.-May, 1881; '82; June-July, Nov.-Dec., '83; May-Dec., '84; Jan.-Feb., '86; 87; '93-99 (v. 19, Nos. 4-5; v. 20; v. 21, Nos. 6-7, 11-12; v. 22, Nos. 5-12; v. 24, Nos. 1-2; v. 25; v. 31-37). Roma, 1881-99. 13 v., il., 9 x 6, unbound.

3 **GIORNALE DEL LAVORI PUBBLICI** (weekly); 1879-80 (v. 6-7). Roma, 1879-80. 2 v., 14 x 11, unbound.

2 **INDUSTRIA, L'** (weekly); 1887-98 (v. 1-12). Note: v. 5, 6 (1891, '92) incomplete. Milano, 1887-98. 12 v., 15 x 9, unbound.

Td9 NETHERLANDS.

1 **ANNALES DE L'ÉCOLE POLYTECHNIQUE DE DELFT** (quarterly); 1885-91, '94, '97 (v. 1-8). Leide, 1885-97. 8 v., 14 x 10, unbound.

Td10 NORWAY.

NORSK TEKNISK TIDSSKRIFT. See *Teknisk Ugeblad.*

2 **TEKNISK UGEBLAD** (weekly); 1883-99 (v. 1-17). Note: Continuation of *Norsk Teknisk Tidsskrift.* v. 16 (1898) incomplete. Kristiania, 1883-99. 17 v., 13 x 10, unbound.

Td13 RUSSIA.

2 **ENGINEER** (monthly); 1893-98 (v. 17-22). Note: Russian text. v. 18-19 (1894-95) wanting. Kieff, 1893-98. 4 v., 13 x 10, unbound.

1 **RIGASCHE INDUSTRIE-ZEITUNG** (semi-monthly): Organ des Technischen Vereins zu Riga: 1876-99 (v. 2-25). Note: v. 24 (1898) incomplete. Riga, 1876-99. 24 v., 12 x 9, unbound.

Td14 SPAIN.

1 **REVISTA DE OBRAS PUBLICAS** (weekly); fundada y sostenida por el Cuerpo Nacional de Ingenieros de Caminos, Canales y Puertos; 1897-99 (v. 44-46). Note: v. 44, 45 (1897, '98) incomplete. Madrid, 1897-99. 3 v., 14 x 10, unbound.

Td15 SWEDEN.

1 **TEKNISK TIDSKRIFT** (weekly); utgifven af Svenska Teknologföreningen; 1877-99 (v. 7-29). Note: v. 28 (1898) incomplete; v. 19 (1889) wanting. Stockholm, 1877-99. 22 v., 13 x 10, unbound.

PERIODICALS—ASIA.

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2 **INDIAN ENGINEERING** (weekly); 1886-June, 1900 (v. 1-27). Note: v. 6 (July-Dec., 1889) wanting. Calcutta, 1886-1900. 26 v., 13 x 9, unbound.

3 **MADRAS ADVERTISER** (weekly); 1888-90 (new ser., v. 8-9). Note: Each volume incomplete. Madras, 1888-90. 2 v., 17 x 12, unbound.

1 **PROFESSIONAL PAPERS ON INDIAN ENGINEERING** (quarterly); 1872-76, '78, '84-86 (ser. 2, v. 1-5, 7; ser. 3, v. 2, No. 6; v. 3, No. 12; v. 4, No. 15). Roorkee, 1872-86. 9 v., il., pl., 10 x 6, 14 x 9, cl.

PERIODICALS—AUSTRALIA.

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1 **BUILDING AND ENGINEERING JOURNAL** (weekly); July, 1890-June, '93. Note: Each volume incomplete. Melbourne, 1890-93. 6 v., 15 x 10, unbound.

DICTIONARIES AND ENCYCLOPEDIAS.

U

51 **ADLER, G. J.,** comp. Dictionary of the German and English languages; in two parts: Pt. 1, German and English; Pt. 2, English and German. ed. 7, rev. N.Y., 1869. 2 v. in 1, 10 x 7, ½ mor.

39 **ALDEN'S LIVING TOPICS CYCLOPÆDIA:** A record of recent events and of the world's progress in all departments of knowledge. N. Y., 1896. 1 v., 8 x 5, ½ ro.

32 **ALEXANDER, J. H.** Universal dictionary of weights and measures, ancient and modern; reduced to the standards of the United States of America. Balt., 1850. 8 + 158 pp., 10 x 6, cl.

69 **ALMANACH DE GOTHA:** Annuaire diplomatique et statistique; 1866, '78–87, '89–95, '97. Gotha, 1866–97. 19 v., por., 5 x 3, cl.

45 **AMERICAN ANNUAL CYCLOPÆDIA AND REGISTER OF IMPORTANT** events; 1861–63, '65. N. Y., 1862–66. 4 v., por., 10 x 7, sh.

44 **AMERICAN CYCLOPÆDIA:** A popular dictionary of general knowledge; ed. by George Ripley and Charles A. Dana. N. Y., 1873–76. 16 v., il., 10 x 7, cl.

87 **AMERICAN ENGINEERING REGISTER;** ed. by Lewis M. Haupt. N. Y., 1885. 411 + 101 pp., 9 x 6, cl.

52 **ANDREWS, E. A.** Copious and critical Latin-English lexicon, founded on the larger Latin-German lexicon of William Freund. N. Y., 1858. 25 + 1663 pp., 10 x 7, sh.

36 **APPLETON'S CYCLOPÆDIA OF DRAWING;** designed as a text-book for the mechanic, architect, engineer and surveyor; comprising geometrical projection, mechanical, architectural, and topographical drawing, perspective and isometry; ed. by W. E. Worthen. N. Y., 1857. 14 + 410 pp., il., pl., 10 x 7, cl.

18 **APPLETON'S DICTIONARY OF MACHINES, MECHANICS, ENGINE-WORK,** and engineering. N. Y., 1863. 2 v., il., pl., por., 10 x 7, ½ mor.

43 **BAILLAIRGÉ, C. P. F.** Vocabulaire des homonymes simples de la langue française. Joliette, 1891. 3 + 212 pp., 7 x 4, cl.

42 ——Vocabulary of English homonyms. Quebec, 1891. 8 + 190 pp., 7 x 4, cl.

30 **BARLOW, PETER.** Encyclopædia of mechanical philosophy; comprising the sciences of mechanics, hydrodynamics, pneumatics, and optics; and treatises on sound and light, by *Sir* John F. W. Herschel. Lond., 1848. 8 + 586 pp., pl., 11 x 9, cl.

31 ——New mathematical and philosophical dictionary; comprising an explanation of the terms and principles of pure and mixed mathematics and such branches of natural philosophy as are susceptible of mathematical investigation; with historical sketches of the rise, progress and present state of the several departments of these sciences; and an account of the discoveries and writings of the most celebrated authors, both ancient and modern. Lond., 1814. unpaged, il., 13 pl., 9 x 6, ½ sh.

60 **BIBLIOTHECA POLYTECHNICA.** Directory of technical literature, a classified catalogue of all books, annuals and journals published in America, England, France and Germany; ed. by Fritz von Szczepánski (yearly); 1889. N. Y., 1890. 1 v., 8 x 5, cl.

24 **BOISTE, P. C. U.** Dictionnaire universel de la langue française, avec le Latin et les étymologies, extrait comparatif, concordance, critique et supplément de tous les dictionnaires français; manuel encyclopédique de grammaire, d'orthographe, de vieux langage, de néologie; revue, corrigée et considerablement augmentée par Charles Nodier. new ed., rev. and enl. Bruxelles, 1835. 24 + 941 pp., tab., 11 x 8, ½ cf.

17 **BOOTH, JAMES C.** Encyclopedia of chemistry, practical and theoretical; embracing its application to the arts, metallurgy, mineralogy, geology, medicine, and pharmacy; by James C. Booth. ed. 7. Phil., 1868. 4 + 974 pp., il., 9 pl., 9 x 6, cf.

71 **BRITISH ALMANAC OF THE SOCIETY FOR THE DIFFUSION OF USEFUL** Knowledge; 1872. Lond., 1872. 1 v., 7 x 4, cl.

1 **BUSTAMANTE, F. CORONA.** Diccionario Inglés-Español y Español-Inglés comprende todas las voces usuales de ambas lenguas con sus diferentes acepciones; las principales frases familiares y modismos; la nomenclatura moderna comercial é industrial los nombres propios, y la pronunciacion figurada de los dos idiomas. Paris, 1880. 2 v., 6 x 4, cl.

U—(*Continued*).

54 **CALISCH, I. M.** New complete dictionary of the English and Dutch languages; rev. by N. S. Calisch. ed. 2 rev. Tiel, 1890-92. 2 v., 10 x 6, ½ mor.

47 **CENTURY CYCLOPEDIA OF NAMES:** A pronouncing and etymological dictionary of names in geography, biography, mythology, history, ethnology, art, archæology, fiction, etc.; ed. by Benjamin E. Smith. N. Y., 1894. 7 + 1065 pp., 13 x 10, sh.

46 **CENTURY DICTIONARY:** An encyclopedic lexicon of the English language; prepared under the supe rintendence of William Dwight Whitney. N. Y., 1889-91. 6 v., il., 13 x 10, sh.

20 **CRESY, EDWARD.** Encyclopædia of civil engineering, historical, theoretical, and practical. Lond., 1847. 12 + 1655 pp., il., 9 x 5, cl.

27 **CYCLOPÆDIA OF USEFUL ARTS, MECHANICAL AND CHEMICAL, MANU**factures, mining, and engineering; ed. by Charles Tomlinson. Lond., 1852 (?) 2 v., il., pl., 10 x 7, cl.

55 **DAVENPORT, JOHN, and GUGLIELMO COMELATI,** comp. New dictionary of the Italian and English languages, based upon that of Baretti. Lond., 1854. 2 v., 9 x 5, cl.

33 **DICTIONARY OF SCIENCE;** comprising astronomy, chemistry, dynamics, electricity, heat, hydrodynamics, hydrostatics, light, magnetism, mechanics, meteorology, pneumatics, sound, and statics; preceded by an essay on the history of the physical sciences; ed. by G. F. Rodwell. Lond., 1871. 28 + 580 pp., 9 x 5, bds.

28 **DICTIONARY OF SCIENCE, LITERATURE, AND ART;** comprising the history, description, and scientific principles of every branch of human knowledge; with the derivation and definition of all the terms in general use; ed. by W. T. Brande, assisted by Joseph Cauvin. N. Y., 1847. 4 + 1352 pp., il., 10 x 6, sh.

57 **ENCYCLOPÆDIA BRITANNICA:** A dictionary of arts, sciences and general literature. ed. 9. N. Y., 1878-89. 25 v., il., 11 x 8, ½ mor.

57*a* ——Same. ed. 3. Edin., 1797-1801. 20 v., il., 11 x 8, sh.

84 **ENGINEERING INDEX;** ed. by the Association of Engineering Societies; 1884-95. Chic., 1892; N. Y., 1896. 2 v., 10 x 7, cl.

77 **FORNEY, M. N., LEANDER GAREY and C. A. SMITH,** comp. Car-builder's dictionary: An illustrated vocabulary of terms which designate American railroad cars, their parts and attachments; comp. for the Master Car Builders' Association. N. Y., 1879. 401 pp., il., 5 x 8, cl.

77*a* ——Same. N. Y., 1884. 203 + 258 pp., il., 8 x 8, cl.

33 **GALLOUPE, F. E.** Index to engineering periodicals, 1883 to 1887, inclusive; comprising engineering, railroads, science, manufactures, and trade. Bost., 1888. 6 + 294 pp., 9 x 6, cl.

5 **GRIER, WILLIAM.** Mechanic's pocket dictionary; being a note book of technical terms, rules, and tables, in mathematics and mechanics; for the use of millwrights, engineers, machine makers, founders, carpenters, joiners, and students of natural philosophy. Glasgow, 1837. 4 + 547 pp., il., pl., por., 7 x 4, cl.

85 **HAFERKORN, H. E., and PAUL HEISE.** Handy lists of technical literature; reference catalogue of books printed in English from 1880 to 1888 inclusive, to which is added a select list of books printed before 1880. Milwaukee, 1889-93. 6 v. in 5, 9 x 6, cl.

11 **HAMONIÈRE, G.** Nouveau dictionnaire français-anglais et anglais-français, abrégé de Boyer; augmentée d'un dictionnaire de prononciation et de vocabulaires de mythologie, de géographie et de marine. new ed., enl. Paris, no date. various pagings, 9 x 6, sh.

15 **HERBERT, LUKE.** Engineer's and mechanic's encyclopædia, comprehending practical illustrations of the machinery and processes employed in every description of manufacture of the British Empire. Lond., 1837. 2 v., il., pl., 9 x 6. ¾ mor.

58 **HIBBEN, T. N., & CO.,** pub. Dictionary of the Chinook jargon, or Indian trade language of the North Pacific Coast. Victoria, 1883. 35 pp., 8 x 6, pap.

23 **HILPERT, J. L.** Dictionary of the English and German, and the German and English language; with a preface by E. Kærcher. N. Y., 1846. 1 v. in 2, 11 x 8, ½ ro.

6 **HOEFER, FERD.** Dictionnaire de chimie et de physique. Paris, 1846. 2 + 478 pp., 7 x 5, cl.

78 **HOUSTON, E. J.** Dictionary of electrical words, terms and phrases. ed. 4, enl. N. Y., 1898. 7 + 990 pp., il., 10 x 7, cl.

26 **HUTTON, CHARLES.** Mathematical and philosophical dictionary; containing an explanation of the terms, and an account of the several subjects, comprized under the heads, mathematics, astronomy, and philosophy, both natural and experimental; with an historical account of the rise, progress, and present state of these sciences: also, memoirs of the lives and writings of the most eminent authors, both ancient and modern, who by their discoveries or improvements have contributed to the advancement of them. Lond., 1795-96. 2 v., il., pl., 10 x 8, cf.

U—(*Continued*).

58 **LIDDELL, H. G., and ROBERT SCOTT.** Greek-English lexicon, based on the German work of Francis Passow; with corrections and additions by Henry Drisler. N. Y., 1853. 29 + 1705 pp., 10 x 7, sh.

48 **LOPES, J. M., and E. R. BENSLEY,** comp. Nuevo diccionario Inglés-Español y Español-Inglés. Paris, 1892. 2 v. in 1, 11 x 7, ½ mor.

41 **LOVENDAL, A. S.** Dictionnaire technique, français-anglais, des outils et ustensiles employés dans les métiers manuels, la petite industrie, le ménage, etc., suivi d'un index anglais-français. Paris, 1899. 8 + 158 pp., 7 x 5, pap.

14 **McCULLOCH, J. R.** Dictionary, practical, theoretical, and historical of commerce and commercial navigation; ed. by Henry Vethake. Phil., 1845. 2 v., 9 x 6, sh.

16 **M'CULLOCH'S UNIVERSAL GAZETTEER:** A dictionary, geographical, statistical, and historical, of the various countries, places, and principal natural objects in the world; in which the articles relating to the United States have been greatly multiplied and extended, and adapted to the present condition of the country, and to the wants of its citizens; by Daniel Haskel. N. Y., 1843-44. 2 v., maps, 10 x 6, ¾ ro.

9 **MALVIN-CAZAL, JOSEPH DE.** Prononciation de la langue française au XIX siècle, tant dans le langage soutenu que dans la conversation. Paris, 1846. 25 + 492 pp., 8 x 5, ½ ro.

2 **MEADOWS, F. C.** New Spanish and English dictionary, in two parts: I, Spanish and English—II, English and Spanish. Lond., 1847. 6 + 427 + 379 pp., 6 x 4, cl.

10 **MORTIMER, THOMAS.** General commercial dictionary, comprehending trade, manufactures, and navigation, as also agriculture, so far as it is connected with commerce; with considerable alterations and additions, by William Dickinson. ed. 2, enl. Lond., 1819. 8 + 1156 pp., 8 x 5, pap.

21 **MUSPRATT, SHERIDAN.** Chemistry, theoretical, practical and analytical as applied and relating to the arts and manufactures. Glasgow, 1860. 7 v., il., pl., por., 11 x 8, cl.

70 **NATIONAL ALMANAC AND ANNUAL RECORD;** 1863. Phil., 1863. 1 v., 7 x 5, cl.

7 **NAVAL AND MILITARY TECHNICAL DICTIONARY OF THE FRENCH LANguage,** in two parts: French-English, and English-French; with explanations of the various terms, by Burn. Bost., 1853. 12 + 382 + 320 pp., tab., 8 x 5, cl.

13 **NEUMAN AND BARETTI'S DICTIONARY OF THE SPANISH AND ENGLISH** languages; wherein the words are correctly explained, agreeably to their different meanings, and a great variety of terms relating to the arts, sciences, manufactures, merchandise, navigation, and trade, elucidated. rev. and enl. ed. Bost., 1828. 2 v., 9 x 5, sh.

34 **NEW EDINBURGH ENCYCLOPÆDIA,** v. 14, Pts. 1-2. Amer. ed. Note: Comprises articles from "Musci" to "Organ." Phil., no date. 2 v., il., pl., 11 x 9, ½ sh. no title-page.

82 **NICHOLSON, PETER.** Architectural and engineering dictionary, containing a correct nomenclature and derivation of the terms employed by architects, builders and workmen; and the lives of the principal architects. Lond., 1835. 2 v. in 4, pl., 11 x 9, ¾ ro.

76 **NICHOLSON, WILLIAM.** American edition of the British Encyclopedia; or, Dictionary of arts and sciences; comprising an accurate and popular view of the present improved state of human knowledge; v. 6. Phil., 1817. 1 v., pl, 9 x 6, bds.

79 **PARKER, J. H.** Concise glossary of terms used in Grecian, Roman, Italian and Gothic architecture. ed. 8. rev. Lond., 1892. 2 + 335 pp., il., 7 x 5, cl.

59 **PENNSYLVANIA, UNIVERSITY OF.** List of periodical engineering literature; prepared at the Rogers Engineering Library, University of Pennsylvania, by H. Haupt, Jr. Phil., 1879. 91 pp., 10 x 6, pap.

12 **POCKET DICTIONARY OF THE SPANISH AND ENGLISH LANGUAGES;** comp. from the last improved editions of Neuman and Baretti; in two parts; Spanish-English and English-Spanish. Phil., 1851. 2 v., 5 x 4, sh.

86 **PRUSSIA—MINISTERIUM FÜR HANDEL, GEWERBE UND ÖFFENTLICHE** Arbeiten. Repertorium der technischen Literatur; herausgegeben von Bruno Kerl; 1854-76. new ser. Leipzig, 1871-77. 5 v. in 9, 10 x 6, pap.

56 **ROGET, P. M.** Thesaurus of English words and phrases classified and arranged so as to facilitate the expression of ideas and assist in literary composition; enl. and improved, by John Lewis Roget. new ed., enl. N. Y., 1879. 45 + 429 + 271 pp., 8 x 5, cl.

87 **ROYAL DICTIONARY;** English and French, and French and English; comp. from the dictionaries of Johnson, Todd, Ash, Webster, and Crabb, from the last edition of Chambaud, Garner, and J. Descarrières, the sixth edition of the Academy, the complement to the Academy, the grammatical dictionary of Laveaux, the universal lexicon of Boiste, and the standard technological works in either language; by Fleming and Tibbins. Paris, 1857. 2 v., 12 x 9, ½ mor.

50 **SMITH, L., H. HAMILTON and E. LEGROS.** International English and French dictionary. new ed. Bost., 1880. 2 v. in 1, 10 x 6, ¾ mor.

U—(*Continued*).

22 **SPONS' DICTIONARY OF ENGINEERING, CIVIL, MECHANICAL, MILITARY,** and naval; with technical terms in French, German, Italian, and Spanish; ed. by Oliver Byrne. Lond., 1869-74. 8 v., il., tab., 10 x 7, cl.

25 **STEVENS, JOHN.** New Spanish and English dictionary; collected from the best Spanish authors, both ancient and modern; to which is added, a copious English and Spanish dictionary; likewise, a Spanish grammar, more complete and easy than any hitherto extant, wherein the Spanish dialogues that have been published are put into proper English. Lond., 1706 (?) unpaged, 15 x 9, cf.

81 **STUART, ROBERT.** Dictionary of architecture, historical, descriptive, topographical, decorative, theoretical and mechanical. Lond., no date. 3 v., il., 9 x 6, cl.

TANNER, H. S. Glossary of the scientific, mechanical and other terms employed in engineering. 1840. (See Aa-14, p. 235.)

29 **TECHNOLOGICAL DICTIONARY; CONTAINING THE TECHNICAL TERMS** used in manufactures and arts, building, civil and naval architecture, military, civil and mechanical engineering, artillery, navigation, mathematics and natural philosophy, chemistry and mineralogy, etc. Wiesbaden, 1855-69. 3 v., 10 x 7, ro.

49 **TECHNOLOGICAL DICTIONARY; ENGLISH, GERMAN, FRENCH; WITH A** preface by Karl Karmarsch. v. 1-2, ed. 4, rev.; v. 3, ed. 3, rev. and enl. Wiesbaden, 1887-91. 3 v., 10 x 7, ½ mor.

4 **TOLHAUSEN FRÈRES ET GARDISSAL.** Dictionnaire technologique français-anglais-allemand, rédigé d'après les meilleurs ouvrages spéciaux des trois langues; donnant avec leurs diverses acceptions et applications tous les termes techniques employés dans les arts industriels et dans la mécanique, la physique et la chimie manufacturières. Paris, 1854-55. 3 v., 7 x 4, ¾ mor.

8 **TOMLINS, T. E.** Popular law-dictionary, familiarly explaining the terms and nature of English law; adapted to the comprehension of persons not educated for the legal profession, and affording information peculiarly useful to magistrates, merchants, parochial officers, and others. Lond., 1838. 553 pp., 8 x 5, ½ sh.

40 **UNITED STATES—BUREAU OF EDUCATION.** English-Eskimo and Eskimo-English vocabularies; comp. by Roger Wells, Jr. and John W. Kelly; preceded by ethnographical memoranda concerning the Arctic Eskimos in Alaska and Siberia, by John W. Kelly. (Circular of Information No. 2.) Wash., 1890. 72 pp., maps, 9 x 6, pap.

19 **URE, ANDREW.** Dictionary of arts, manufactures, and mines; containing a clear exposition of their principles and practice. 4th Amer. fr. Lond. ed. N. Y., 1845. 2 v., il., 9 x 6, sh.

80 **VIOLLET-LE-DUC, E. E.** Dictionnaire raisonné de l'architecture française du 11e au 16e siècle. Paris, 1867-68. 10 v., il., pl., 10 x 7, pap.

38 **WEALE, JOHN.** Rudimentary dictionary of terms used in architecture, civil; architecture, naval; building and construction; early and ecclesiastical art; engineering, civil; engineering, mechanical; fine art; mining; surveying, etc.; to which are added explanatory observations on numerous subjects connected with practical art and science. Lond., 1849-50. 2 v., il., pl., 7 x 4, cl.

72 **WHITAKER, JOSEPH.** Almanack; 1885-86 Lond., 1885-86. 2 v., 7 x 5, pap.

3 **WILL, C.** Dictionary; English and German. Frankfurt a. M., 1827. 2 v., 6 x 5, bds.

73 **WORLD ALMANAC AND ENCYCLOPEDIA;** 1900. N. Y., 1900. 1 v., 8 x 5, pap.

ENGINEERING HANDBOOKS.*

V

8 **ADCOCK'S ENGINEERS' POCKET-BOOK, WITH AN ALMANACK; 1839, '41.** Lond., 1839-41. 2 v., il., 6 x 4, mor.

80 **ALLEN, ZACHARIAH.** Science of mechanics, as applied to the present improvements in the useful arts in Europe, and in the United States of America; adapted as a manual for mechanics and manufacturers, and containing tables and calculations of general practical utility. Providence, 1829. 5 + 364 pp., il., pl., 9 x 6, bds.

84 **BAKER, *SIR* BENJAMIN.** On the strengths of beams, columns and arches; considered with a view to deriving methods of ascertaining the practical strength of any given section of beam, column, or arch, in cast iron, wrought iron, or steel. Lond., 1870. 12 + 320 pp., il., pl., 7 x 5, cl.

99 **BAKER, I. O.** Treatise on masonry construction. ed. 4, rev. and enl. Contents: Pt. 1, Description and characteristics of the materials. Pt. 2, Methods of preparing and using the materials. Pt. 3, Foundations. Pt. 4, Masonry structures. N. Y., 1890. 15 + 556 pp., il., 6 pl., 9 x 6, cl.

99a ——Same. ed. 9, rev. N. Y., 1899. 13 + 556 pp., il., 9 x 6, cl.

85 **BARLOW, PETER.** Treatise on the strength of timber, cast iron, malleable iron, and other materials; with rules for application in architecture, construction of suspension bridges, railways, etc.; with an appendix on the power of locomotive engines. Lond., 1837. 12 + 492 pp., 7 pl., 10 x 7, cl.

85a ——Same. new ed. rev. Lond., 1867. 12 + 396 pp., 10 + 9 pl., 9 x 6, cl.

36 **BARRÉ, L. A., CHARLES VIGREUX and others.** Notes et formules de l'ingénieur, du constructeur-mécanicien, du métallurgiste et de l'électricien; 11e edition, revue, suivie, d'un vocabulaire technique en français, anglais, allemand. Paris, 1897. 16 + 1312 pp., il., 7 x 4, cl.

45 **BECKER, MAX.** Handbuch des Ingenieur Wissenschaft. Note: Atlas accompanying v. 3 wanting. Stuttgart, 1858 (v. 3). Leipzig, 1882 (v. 2). 2 v., 9 x 6, pap., ¾ mor.

87 **BOVEY, H. T.** Applied mechanics. Montreal, 1882. 2 v., il., 9 x 6, cl.

29 **BROWNE, W. R.** Student's mechanics: An introduction to the study of force and motion; with appendix of examples, worked and unworked. Lond., 1883. 16 + 210 pp., il., 7 x 5, cl.

50 **BRUNTON, ROBERT.** Compendium of mechanics; or, Text book for engineers, mill-wrights, machine-makers, founders, smiths, etc., containing practical rules and tables connected with the steam engine, water-wheel, pump, and mechanics in general. ed. 5, enl. Glasgow, 1831. 189 pp., 4 pl., 8 x 4, bds.

71 **BURR, W. H.** Elasticity and resistance of the materials of engineering. ed. 5, rev. and enl. N. Y., 1896. 17 + 753 pp., il., 9 x 6, cl.

104 **BYRNE, OLIVER.** Essential elements of practical mechanics, based on the principle of work; designed for engineering students. ed. 2. Lond., 1872. 11 + 360 pp., il., 7 x 5, cl.

9 ——Pocket companion for machinists, mechanics and engineers. ed. 2. N. Y., 1851. 144 pp., il., pl., tab., 6 x 4, mor.

32 **CLARK, D. K.** Mechanical engineer's pocket-book of tables, formulæ, rules and data: A handy book of reference for daily use in engineering practice. N. Y., 1892. 32 + 656 pp., il., 6 x 4, mor.

33 **CLAUDEL, J.** Formules, tables et renseignements, pratiques; aide-mémoire des ingénieurs des architectes, etc. ed. 5, rev. and enl. Paris, 1860. 32 + 1173 pp., il., pl., 8 x 5, ¾ ro.

100 **CLAUDEL, J., and J. LAROQUE.** Pratique de l'art de construire: Maçonnerie; connaissances relatives à l'exécution et à l'estimation des travaux de maçonnerie, et en particulier de ceux du bâtiment. Paris, 1850. 12 + 508 pp., il., 9 x 5, pap.

100a ——Same. ed. 4. Paris, 1870. 756 pp., 9 x 5, pap.

25 **COTTERILL, J. H., and J. H. SLADE.** Lessons in applied mechanics. Lond., 1891. 14 + 512 pp., il., 7 x 4, cl.

44 **CRESY, EDWARD.** Supplement to an encyclopedia of engineering, historical, theoretical and practical; comprising the Metropolitan water supply, drainage of towns, railways, cubical proportion, brick and iron construction, iron screw piles, tubular bridges, etc. Lond., 1856. pp. 1637-1752, il., pl., 9 x 6, cl.

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* NOTE.—Includes text books on mechanics, strength of materials and general engineering.

V—(*Continued*).

47 **DANA, E. S.** Text-book of elementary mechanics, for the use of colleges and schools. ed. 6. N. Y., 1886. 14 + 291 pp., il., 8 x 5, cl.

18 **DEBAUVE, A.** Manuel de l'ingénieur des ponts et chaussées; v. 9, 12. Contents. v. 9, Routes. v. 12, Construction des souterrains. Paris, 1873-74. 2 v. in 4, pl., tab., 9 x 6 (atlases 12 x 10), ¾ mor.

51 **DU BOIS A. J.** Elementary principles of mechanics. N. Y., 1894. 8 v., il., 9 x 6, cl.

55 **EMERSON, WILLIAM.** Principles of mechanics; to which is now added an appendix containing explanatory notes, illustrations, and observations; by G. A. Smeaton. new ed. Lond., 1836. 24 + 9 + 320 pp., il., 8 x 5, cl.

2 **ENGINEER AND CONTRACTOR'S POCKET-BOOK;** 1851. Note: pp. 17-60 wanting. Lond., 1851. 1 v., il., pl., 6 x 4, mor.

40 **FOWLER, W. H.,** ed. Mechanical engineers' pocket book for 1894, '99-1900. Manchester, 1894-1900. 8 v., il., 5 x 3, 6 x 4, mor.

98 **FRANCIS, J. B.** On the strength of cast-iron pillars; with tables for the use of engineers, architects and builders. N. Y., 1865. 71 pp., 10 x 6, cl.

86 **GERSTNER, F. J. *RITTER* VON.** Handbuch der Mechanik, aufgesetzt, mit Beiträgen von neuern englischen Konstruktionen vermehrt und herausgegeben von Franz Anton, *Ritter* von Gerstner. Contents: v. 1, Mechanik fester Körper. v. 2, Mechanik flüssiger Körper. v. 3, Beschreibung und Berechnung grösserer Maschinenanlagen, vorzüglich jener, welche bei dem Bau-, Berg- und Hüttenwesen vorkommen. v. 4, Plates. Prag, 1831-34. 4 v., 11 x 8, ¾ mor.

28 **GREENE, B. F.** Physical mechanics: Lectures delivered Nov., 1856, and Jan. and Mar., 1857. no place, no date. 2 v., il., 10 x 8, pap. manuscript.

26 ——Rational mechanics: Lectures delivered Apr., 1856. no place, no date. unpaged, 9 x 8, pap. manuscript.

46 **GREENE, C. E.** Action of materials under stress; or, Structural mechanics; comprising the strength and resistance of materials, and elements of structural design; with examples and problems. Ann Arbor, 1897. 271 pp., il., 9 x 6, cl.

53 **HAHN, JAMES.** Theoretical and practical mechanics, designed principally for practical men. Lond., 1848. 10 + 308 + 22 pp., il., 9 x 6, cl.

27 **HANDBUCH DER BAUKUNDE;** eine systematische und vollständige Zusammenstellung der Resultate der Bauwissenschaften mit den zugehörigen Hülfswissenschaften. *Die Deutsche Bauzeitung* und *Der Deutsche Baukalender.* Contents: Pt. 1, v. 1, Hülfswissenschaften zur Baukunde. Pt. 1, v. 2, Eisen und Eisenkonstruktionen in geschichtlicher, hüttentechnischer und technologischer Beziehung; by G. Mehrtens. Pt. 2, v. 1 and 2 wanting. Pt. 3, v. 1, Baukunde des Ingenieurs: Der Grundbau; by S. Brennecke. Ber., 1885. 3 v., il., 10 x 7, pap.

6 **HASLETT, CHARLES.** Mechanic's, machinist's, and engineer's practical book of reference; containing tables and formulæ for use in superficial and solid mensuration, strength and weight of materials, mechanics, machinery, hydraulics, hydrodynamics, marine engines, chemistry and miscellaneous recipes; together with the engineer's field book; ed. by Charles W. Hackley. N. Y., 1856. 517 pp., il., tab., 6 x 4, mor.

7 **HASWELL, C. H.** Engineers' and mechanics' pocket-book. ed. 32, rev. and enl. N. Y., 1876. 665 pp., il., 6 x 4, mor.

23 ——Mechanics' tables, containing areas and circumferences of circles, and sides of equal squares; circumferences of angled hoops, angled outside and inside; cutting of boiler plates; covering of solids, etc. N. Y., 1856. 72 pp., il., 8 x 5, cl.

101 **HATFIELD, R. G.** Theory of transverse strains; and its application in the construction of buildings. N. Y., 1875. 630 pp., il., 10 x 6, cl.

14 **HAUPT, L. M.** Manual of engineering specifications and contracts; designed as a text-book and work of reference for all who may be engaged in the theory or practice of engineering. Phil., 1878. 12 + 305 pp., pl., 9 x 6, cl.

24 **HAVILAND, JAMES.** Tables of specific gravities of all substances, their superficial and solid contents; land measuring; together with a computation of the difference between the old and new weights and measures; also a definition of mechanical power in the practical use of machinery; the prices of the work of millwrights and other artificers; with tables of interest, discount, etc. new ed. Lond., 1846. 16 + 231 pp., 9 x 6, cl.

1 **HILL, J. W.,** ed. Pocket manual for engineers. Providence, 1883. 205 pp., il., 7 x 5, ro.

107 **HOLTZMANN, KARL.** Grundzüge der Mechanik und Maschinenlehre, für Lehrer und Lernende, für Schule und Haus. Stuttgart, 1850. 8 + 187 pp., il., 7 x 5, ¾ skiv.

39 **HÜTTE VEREIN.** Des Ingenieurs Taschenbuch. ed. 7, rev. and enl. Ber., 1867. 23 + 880 pp., il., 6 x 4, bds.

82 **JAMIESON, ALEXANDER.** Mechanics for practical men: Treatises on the composition and resolution of forces, the centre of gravity, and the mechanical powers. ed. 4. Lond., 1845. 238 pp., il., pl., 9 x 6, cl.

V—(*Continued*).

30 **JOHNSON, J. B.** Engineering contracts and specifications, including a brief synopsis of the law of contracts and illustrative examples of the general and technical clauses of various kinds of engineering specifications; designed for the use of students, engineers, and contractors. N. Y., 1895. various pagings, 9 x 6, cl.

17 ——Johnson's tables: Stadia and earthwork tables; four-place logarithms, logarithmic traverse table, natural functions, map projections, etc. N. Y., 1892. 6 + 99 pp., il., 9 x 6, cl.

88 ——Materials of construction: A treatise for engineers on the strength of engineering materials. N. Y., 1897. 15 + 787 pp., il., pl., maps, por., 9 x 6, cl.

48 **KATER, HENRY, and DIONYSIUS LARDNER.** Treatise on mechanics. Cambridge, 1831. 8 + 388 pp., 21 pl., 7 x 4, cl.

5 **KENT, WILLIAM.** Mechanical engineer's pocket-book: A reference book of rules, tables, data, and formulæ; for the use of engineers, mechanics and students. N. Y., 1895. 31 + 1087 pp., il., 7 x 4, mor.

83 ——Strength of materials. (Van Nostrand's Science Ser.) N. Y., 1879. 139 pp., il., pl., 6 x 4, bds.

35 **LACROIX, EUGÈNE,** ed. Carnet de l'ingénieur; recueil de tables, de formules et de renseignements usuels et pratiques sur les sciences appliquées à l'industrie chimie, physique, mécanique, machines à vapeur, hydraulique, resistance, frottements, etc., publié par les rédacteurs des *Annales du Genie Civil* avec la collaboration d'ingénieurs et de savants français et étranges. ed. 12, rev. and enl. Paris, 1865. 8 + 290 pp., il., 7 x 4, ¾ mor.

38 **LAISNE, J.** Aide-mémoire portatif à l'usage des officiers du génie. ed. 4, rev. and enl. Paris, 1861. 2 v., pl., 7 x 4, ½ mor.

16 **LAW, HENRY.** Rudiments of civil engineering for the use of beginners. Lond., 1848-49. 2 v. in 1, il., pl., 7 x 4, cl.

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5 ——Report of the Executive Commissioner for New South Wales to the World's Columbian Exposition, Chicago, 1893. Sydney, 1894. 4 + 671 pp., pl., map, 10 x 6, cl.

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88 ——World's fairs from London, 1851, to Chicago, 1893. Midway Publishing Co. Chic., 1892. 82 pp., il., pl., por., maps, 10 x 7, pap.

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120 ——Report of the Committee on Sites of the World's Fair Committee, embracing full descriptions of every site proposed, and as complete data concerning them as could be procured, and accompanied by a map of the City of New York, showing the exact localities and boundaries of each site. S. A. Haines. N. Y., 1880. 31 pp., 9 x 6, pap.

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24 ——Catalogue of the Chinese Imperial Maritime Customs Collection, at the United States International Exhibition, Philadelphia, 1876. Shanghai, 1876. 127 + 52 pp., map, 11 x 8, bds.

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54 ——Collection of the Netherlands Treasury Department; explicatory notice. Amsterdam, 1876. 25 pp., 8 x 5, pap.

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141 ——General views of the United States Government Building and contents. U. S.-Ordnance Office. Bost., 1877. 1 + 31 pl., 16 x 20, ¾ mor.

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60 ——Index to the catalogue of the ordnance collection. U. S.-Ordnance Office. Wash., 1876. 36 pp., 9 x 6, pap.

52 ——International Exhibition, Department of Education and Science: Catalogue of some of the prominent exhibits in this department from Massachusetts. Phil., 1876. 14 pp., pl., 9 x 6, pap.

40 ——Journal of the proceedings, at Philadelphia; Session 4th, 7th. U. S.-Centennial Commission. Phil., 1873–76. 2 v., 9 x 6, pap.

71 ——Katalog der österreichischen Abtheilung. Austria-Commission für die Weltausstellung in Philadelphia. Wien, no date. 10 + 132 pp., 9 x 6, pap.

53 ——List of publications of the Engineer Department, U. S. Army, including reports of explorations, etc., conducted under other branches of the Department of War, exhibited at the International Exhibition, 1876, at Philadelphia. U. S.-Corps of Engineers. Wash., 1876. 27 pp., 8 x 6, pap.

75 ——Lista preparatoria del cataloga de los expositores de España, y sus provincias de ultramar, Cuba, Puerto Rico, y Filipinas. Phil., no date. 170 pp., pl., 10 x 6, pap.

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73 ——Norwegian special catalogue for the International Exhibition at Philadelphia. Christiania, 1876. 12 + 164 pp., maps, tab., 9 x 6, pap.

55 ——Notes in regard to some textile plants of Brazil, at the International Exhibition at Philadelphia in 1876. José de Saldanha da Gama. N. Y., 1876. 7 pp., 7 x 5, pap.

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34 ——Official catalogue. U. S.-Centennial Commission. rev. ed. Phil., 1876. 4 v. in 1, il., 8 x 5, cl.

26 ——Official catalogue of the British Section. Lond., 1876. 2 v. in 1, il., pl., map, 9 x 7, cl.

81 ——Official catalogue of the Japanese Section, and descriptive notes on the industry and agriculture of Japan. Phil., 1876. 130 pp., pl., map, tab., 9 x 6, pap.

59 ——Official catalogue of the natural and industrial products of New South Wales, forwarded to the International Exhibition of 1876 at Philadelphia. Sydney, 1876. 104 pp., 9 x 6, pap.

77 ——Official catalogue of the Peruvian Section, Main Building, International Exhibition at Philadelphia, 1876. N. Y., no date. 32 pp., 9 x 6, pap.

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158 ——Plans of the Philadelphia Exhibition, with general and detail drawings of the Main Exhibition Building and Machinery Hall. Phil., 1876. 21 sheets, 28 x 47, pap.

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12 ——Report of the Director-General, including the reports of Bureaus of Administration. U.S.-Centennial Commission. Phil., 1879. 2v., il., pl., maps, tab., 9x6, ½ mor.

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51 ——Transportation. Note: Pamphlet relating to the routes and cost of transportation to the Philadelphia Exhibition, issued for use of the exhibitors. Phil., 1875. 26 pp., pl., map, 9 x 6, pap.

66 ——United States International Exhibition: Origin, rise and progress of the work, description of the buildings, etc. U. S.-Centennial Commission. Phil., 1875. 89 pp., il., pl., map, 10 x 7, pap.

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48 ——Woods and minerals of New Brunswick; being a descriptive catalogue of the trees, shrubs, rocks and minerals of the province, available for economic purposes; prepared for use at the Centennial Exhibition at Philadelphia in 1876. L. W. Bailey and Edward Jack. Fredericton, 1876. 51 pp., 8 x 5, pap.

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166 **VIENNA INTERNATIONAL ELECTRICAL EXHIBITION, 1883.** Catalogue. ed. 3. Vienne, 1883. 367 pp., 8 x 5, cl.

142 **VIENNA INTERNATIONAL EXHIBITION, 1873.** Atlas über die Entwicklung von Industrie und Handel der Schweiz in dem Zeitraume vom Jahr 1770 bis zum Jahr 1870. H. Wartmann. Winterthur, 1873. 8 maps, 24 x 17, bds.

113 ——Bericht über die Weltausstellung zu Wien im Jahre 1873; herausgegeben durch die Küstenländische Ausstellungs-Commission in Triest. Friedrich Bömches, ed. Triest, 1874. 577 pp., 9 x 6, cl.

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107 ——Final report to the United States Centennial Commission on the structure erected for the Vienna Universal Exhibition, 1873, and previous exhibitions in London and Paris. Henry Pettit. Phil., 1873. 28 pp., 9 x 6, pap.

106 ——General regulations for the foreign exhibitors and commissions. Wash., 1872. 28 pp., 9 x 6, pap.

135 ——Notices sur les dessins, modèles et ouvrages relatifs aux travaux des ponts et chaussées et des mines. France-Ministère de Travaux Publics. Paris, 1873. 517 pp., 10 x 6, cl.

103 ——Official catalogue of the American Department. Eben Brewer, ed. Lond., 1873. 148 pp., pl., 9 x 7, pap.

140 ——Record of the Vienna Universal Exhibition of 1873; atlas of plates, chiefly reproduced from *Engineering*. W. H. Maw and James Dredge. Note: For explanatory text see Yf-9, v. 2, p. 354 and v. 3, p. 327. Lond., 1874. 15 pp., 268 pl., 22 x 16, ¾ mor.

159 ——Relazione sulla Esposizione Mondiale in Vienna nell'anno 1873; pubblicata dalla Commissione del Litorale per l'Esposizione in Trieste. Friedrich Bömches, ed. Trieste, 1876. 545 pp., 9 x 6, cl.

11 ——Reports; ed. by Robert H. Thurston. U. S.-Commissioners to the Vienna Exhibition, 1873. Contents: v. 1, Introduction, Executive Commission, agriculture. v. 2, Science, education. v. 3, Engineering. v. 4, Architecture, metallurgy, general index. Wash., 1876. 4 v., il., pl., tab., 9 x 6, cl.

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——Tertiary and Cretaceous strata of the Tuscaloosa, Tombigbee, and Alabama Rivers. E. A. Smith and L. C. Johnson. (U. S. Geological Survey. Bulletin No. 43.) 1887. (See Yh-87.)

179 **ANGOLA, AFRICA.** Matériaux pour l'étude stratigraphique et paléontologique de la Province d'Angola. Paul Choffat and P. de Loriol. (Mémoires de la Société de Physique et d'Histoire Naturelle de Genève, v. 30, No. 2.) Genève, 1888. 116 pp., pl., 13 x 10, pap.

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——Reports upon the geology of California, Nevada, Utah, Colorado, New Mexico and Arizona, examined in the years 1871, '72 and '73. U. S.-Geographical Surveys West of the One Hundredth Meridian. 1875. (See Qe-44, v. 3.)

86 **ARKANSAS.** Annual report of the Geological Survey; 1888. Note: v. 1, 4 wanting. Little Rock, 1888. 2 v., il., pl., maps, tab., 9 x 6, cl.

67 **AUSTRALIA.** Mineral map and general statistics of New South Wales, Australia. J. Taylor. Sydney, 1876. unpaged, map, 8 x 5, pap.

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AA Reports and atlases of the anthracite coal region.
AC Report on the mining methods and appliances used in the anthracite coal fields; by H. M. Chance.
A2 Report upon the causes, kinds and amount of waste, in mining anthracite; by Franklin Platt.
B Preliminary report on the mineralogy of Pennsylvania; by F. A. Genth.
B2 Second preliminary report on the mineralogy of Pennsylvania; by F. A. Genth.
C Report of progress in the district of York and Adams Counties; by Persifor Frayer, Jr.
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C6 Geology of Philadelphia Co. and of the southern parts of Montgomery and Bucks; by C. E. Hall.
C7 Report on Montgomery and Bucks Counties.
CC Report of progress in the Counties of York, Adams, Cumberland and Franklin; by Persifor Frayer, Jr.
CCC Geology of Lancaster Co.; by Persifor Frayer, Jr.
D Report of progress on the brown hematite ore ranges of Lehigh Co.; by Frederick Prime, Jr.
D3 v. 1, Geology of Lehigh and Northampton Counties; by J. P. Lesley and others.
v. 2, Geology of the South Mountain belt of Berks Co.; by E. V. d'Invilliers.
D5 Adams, Franklin and Cumberland.
D6 South Mountain sheets.

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DD The brown hematite deposits of the Siluro-Cambrian limestones of Lehigh Co.; by Frederick Prime, Jr.
E Special report on the trap dykes and azoic rocks of Southeastern Pennsylvania; by Sterry Hunt.
F Report of progress in the Juniata District on the fossil iron ore beds of Middle Pennsylvania; by John H. Dewees.
F2 Preliminary report on the paleontology of Perry Co.; by E. W. Claypole.
F3 Report on the geology of Union, Snyder, Mifflin and Juniata Counties: by E. V. d'Invilliers.
G Report of progress in Bradford and Tioga Counties; by Andrew Sherwood and others.
G4 Geology of Clinton Co.; by H. M. Chance.
G5 Geology of Susquehanna Co. and Wayne Co.; by I. C. White.
G6 Geology of Pike and Monroe Counties; by I. C. White: Special surveys of the Delaware and Lehigh Water Gaps; by H. M. Chance.
G7 Geology of the Susquehanna River region in Wyoming, Lackawanna, Luzerne, Columbia, Montour and Northumberland: by I. C. White.
GG Geology of Lycoming and Sullivan Counties; by Andrew Sherwood and Franklin Platt.
GGG Geology of Potter Co.: by Andrew Sherwood and Franklin Platt.
H Report of progress in the Clearfield and Jefferson District of bituminous coal-fields of Western Pennsylvania; by Franklin Platt.
H5 Report of progress in Armstrong Co.; by W. G. Platt.
H6 Report of progress in Jefferson Co.; by W. G. Platt.
H7 Revision of the bituminous coal measures of Clearfield Co.; by H. M. Chance.
HH Report of progress in the Cambria and Somerset District of the bituminous coal-fields of Western Pennsylvania; by F. and W. G. Platt.
HHHH Report of progress in Indiana Co.; by W. G. Platt.
I Report of progress in the Venango Co. District; by J. F. Carll. Observations on the geology around Warren; by F. A. Randall. Note on the comparative geology of North-eastern and North-western Pennsylvania and Western New York; by J. P. Lesley.
I4 Geological report on Warren Co. and the neighboring oil-well regions; with additional oil-well records; by J. F. Carll.
I5 Seventh report on the oil and gas fields of Western Pennsylvania, for 1887–88; by J. F. Carll.
II Report of progress: Oil-well records and levels; by J. F Carll.
III Geology of the oil regions of Warren, Venango, Clarion and Butler Counties; by J. F. Carll.
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M Report of progress in the laboratory of the survey; chemical analyses, 1st–3d; by A. S. M'Creath.
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Q Report of progress in the Beaver River District of the bituminous coal-fields; by I. C. White.
QQ Geology of Lawrence Co.; by I. C. White.
QQQ Geology of Mercer Co.; by I. C. White.
QI Geology of Erie and Crawford Counties; by I. C. White. Discovery of the preglacial outlet of Lake Erie; by J. W. Spencer.
R Geology of McKean Co., and its connection with that of Cameron, Elk and Forest; by C. A. Ashburner.

Yh—(*Continued*).

122 **PENNSYLVANIA.** Second Geological Survey: Reports—(*Continued*).

RR Township geology of Elk and Forest Counties, by C. A. Ashburner; and of Cameron Co., by A. W. Sheafer.
T Geology of Blair Co.; by Franklin Platt.
T2 Geology of Bedford and Fulton Counties; by J. J. Stevenson.
T3 Geology of Huntingdon Co.; by I. C. White.
T4 Geology of Centre Co.; by E. V. d'Invilliers.
V Pt. 1, Northern townships of Butler Co. Pt. 2, A special survey made in 1875 along the Beaver and Shenango Rivers; by H. M. Chance.
VV Geology of Clarion Co.; by H. M. Chance.
X Geological hand atlas of the sixty-seven counties of Pennsylvania embodying the results of the field work of the survey from 1874 to 1884; by J. P. Lesley.
Z Report on the terminal moraine in Pennsylvania and Western New York; by H. C. Lewis.

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" 3, Petroleum and bituminous coal fields.
" 4, South Mountain and Great Valley topographical maps.
" 5, Central and South-eastern Pennsylvania.
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2. Gold and silver conversion tables; computed by Albert Williams, Jr.
3. On the fossil faunas of the upper Devonian along the meridian of 76° 30′ from Tompkins Co., N. Y., to Bradford Co., Pa.; by H. S. Williams.
4. On Mesozoic fossils; by C. A. White.
5. Dictionary of altitudes in the United States; comp. by Henry Gannett.
6. Elevations in the Dominion of Canada; by J. W. Spencer.

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87 **UNITED STATES.** Bulletin of the Geological Survey—(*Continued*).

7, Mapoteca geologica Americana: A catalogue of geological maps of America (North and South) 1752–1881; by Jules and J. B. Marcou.
8, On secondary enlargements of mineral fragments in certain rocks; by R. D. Irving and C. R. Van Hise.
9, Report of work done in the Washington Laboratory during the fiscal year 1883–84; by F. W. Clarke and T. M. Chatard.
10, On the Cambrian faunas of North America; by C. D. Walcott.
11, On the Quarternary and recent mollusca of the Great Basin, with descriptions of new forms; by R. E. Call.
12, Crystallographic study of the thinolite of Lake Lahontan; by E. S. Dana.
13, Boundaries of the United States and most of the several states and territories; by Henry Gannett.
14, Electrical and magnetic properties of the iron-carburets; by Carl Barus and Vincent Strouhal.
15, On the Mesozoic and Cenozoic paleontology of California; by C. A. White.
16, On the higher Devonian faunas of Ontario Co., N. Y.; by J. M. Clarke.
17, On the development of crystallization in igneous rocks of Washoe, Nev.; by Arnold Hague and J. P. Iddings.
18, On marine Eocene, fresh water Miocene and other fossil mollusca of Western North America; by C. A. White.
19, Notes on the stratigraphy of California; by G. F. Becker.
20, Contributions to the mineralogy of the Rocky Mountains; by Whitman Cross and W. F. Hillebrand.
21, Lignites of the Great Sioux Reservation; by Bailey Willis.
22, On new Cretaceous fossils from California; by C. A. White.
23, Observations on the junction between the eastern sandstone and the Keweenaw series on Keweenaw Point, Lake Superior; by R. D. Irving and T. C. Chamberlin.
24, List of marine mollusca comprising the Quaternary fossils and recent forms from American localities between Cape Hatteras and Cape Roque including the Bermudas; by W. H. Dall.
25, Present technical condition of the steel industry of the United States; by Phineas Barnes.
26, Copper smelting; by H. M. Howe.
27, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1884–85.
28, The gabbros and associated hornblende rocks occurring in the neighborhood of Baltimore, Md.; by G. H. Williams.
29, On the fresh-water invertebrates of the North American Jurassic; by C. A. White.
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31, Systematic review of our present knowledge of fossil insects, including myriapods and arachnids; by S. H. Scudder.
32, Lists and analyses of the mineral springs of the United States; by A. C. Peale.
33, Notes on the geology of Northern California; by J. S. Diller.
34, On the relation of the Laramie molluscan fauna to that of the succeeding fresh-water Eocene and other groups; by C. A. White.
35, Physical properties of the iron-carburets; by Carl Barus and Vincent Strouhal.
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37, Types of the Laramie flora; by L. F. Ward.
38, Peridotite of Elliott Co., Ky.; by J. S. Diller.
39, Upper beaches and deltas of the glacial Lake Agassiz; by Warren Upham.
40, Changes in river courses in Washington Territory due to glaciation; by Bailey Willis.
41, On the fossil faunas of the upper Devonian, the Genesee Section, N. Y.; by H. S. Williams.
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43, Tertiary and Cretaceous strata of the Tuscaloosa, Tombigbee and Alabama Rivers; by E. A. Smith and L. C. Johnson.
44, Bibliography of North American geology for 1886; by N. H. Darton.
45, Present condition of knowledge of the geology of Texas; by R. T. Hill.
46, Nature and origin of deposits of phosphate of lime; by R. A. F. Penrose, Jr.
47, Analyses of waters of the Yellowstone National Park; by F. A. Gooch and J. E. Whitfield.
48, On the form and position of the sea level; by R. S. Woodward.
49, Latitudes and longitudes of certain points in Missouri, Kansas and New Mexico; by R. S. Woodward.
50, Formulas and tables to facilitate the construction and use of maps; by R. S. Woodward.
51, On invertebrate fossils from the Pacific Coast; by C. A. White.
52, Subaërial decay of rocks and origin of the red color of certain formations; by J. C. Russell.
53, Geology of Nantucket; by N. S. Shaler.
54, On the thermo-electric measurement of high temperatures; by Carl Barus.
55. Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1886–87.

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87 **UNITED STATES.** Bulletin of the Geological Survey—(*Continued*).

56, Fossil wood and lignite of the Potomac formation; by F. H. Knowlton.
57, Geological reconnaissance in Southwestern Kansas; by Robert Hay.
58, Glacial boundary in Western Pennsylvania, Ohio, Kentucky, Indiana and Illinois; by G. F. Wright.
59, The gabbros and associated rocks in Delaware; by F. D. Chester.
60, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1887-88.
61, Contributions to the mineralogy of the Pacific Coast; by W. H. Melville and Waldemar Lindgren.
62, Greenstone schist areas of the Menominee and Marquette regions of Michigan; by G. H. Williams.
63, Bibliography of Paleozoic crustacea from 1698 to 1889; by A. W. Vogdes.
64, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1888-89.
65, Stratigraphy of the bituminous coal field of Pennsylvania, Ohio and West Virginia; by I. C. White.
66, On a group of volcanic rocks from the Tewan Mountains, New Mexico, and on the occurrence of primary quartz in certain basalts; by J. P. Iddings.
67, Relations of the traps of the Newark system in the New Jersey region; by N. H. Darton.
68, Earthquakes in California in 1889; by J. E. Keeler.
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72, Altitudes between Lake Superior and the Rocky Mountains; by Warren Upham.
73, Viscosity of solids; by Carl Barus.
74, Minerals of North Carolina; by F. A. Genth.
75, Record of North American geology for 1887 and 1889 inclusive; by N. H. Darton.
76, Dictionary of altitudes in the United States (ed. 2); comp. by Henry Gannett.
77, Texan Permian and its Mesozoic types of fossils; by C. A. White.
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79, Late volcanic eruption in Northern California and its peculiar lava; by J. S. Diller.
80, Correlation papers: Devonian and Carboniferous; by H. S. Williams.
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83, Correlation papers: Eocene; by W. B. Clark.
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89, Some lava flows of the western slope of the Sierra Nevada, Cal.; by F. L. Ransome.
90, Report of work done in the Division of Chemistry and Physics mainly during the fiscal year, 1890-91.
91, Record of North American geology for 1890; by N. H. Darton.
92, Compressibility of liquids; by Carl Barus.
93, Some insects of special interest from Florissant, Colo. and other points in the Tertiaries of Colorado and Utah; by H. S. Scudder.
94, Mechanism of solid viscosity; by Carl Barus.
95, Earthquakes in California in 1890 and 1891; by E. S. Holden.
96, Volume thermodynamics of liquids; by Carl Barus.
97, Mesozoic Echinodermata of the United States; by W. B. Clark.
98, Flora of the outlying Carboniferous basins of Southwestern Missouri; by David White.
99, Record of North American geology for 1891; by N. H. Darton.
100, Bibliography and index of the publications of the United States Geological Survey, with the laws governing their printing and distribution; by P. C. Warman.
101, Insect fauna of the Rhode Island coal field; by S. H. Scudder.
102, Catalogue and bibliography of North American Mesozoic invertebrata; by C. B. Boyle.
103, High temperature work in igneous fusion and ebullition, chiefly in relation to pressure; by Carl Barus.
104, Glaciation of the Yellowstone Valley north of the Park; by W. H. Weed.
105, The Laramie and the overlying Livingston formation in Montana; by W. H. Weed.
106, Colorado formation and its invertebrate fauna; by T. W. Stanton.
107, The trap dikes of the Lake Champlain region; by J. F. Kemp and V. F. Marsters.
108, Geological reconnaissance in Central Washington; by I. C. Russell.
109, The eruptive and sedimentary rocks on Pigeon Point, Minn., and their contact phenomena; by W. S. Bayley.

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87 **UNITED STATES.** Bulletin of the Geological Survey—(*Continued*).

110, Paleozoic section in the vicinity of Three Forks, Mont.; by A. C. Peale.
111, Geology of the Big Stone Gap coal field of Virginia and Kentucky; by M. R. Campbell.
112, Earthquakes in California in 1892; by C. D. Perrine.
113, Report of work done in the Division of Chemistry during the fiscal years 1891-92 and 1892-93.
114, Earthquakes in California in 1893; by C. D. Perrine.
115, Geographic dictionary of Rhode Island; by Henry Gannett.
116, Geographic dictionary of Massachusetts; by Henry Gannett.
117, Geographic dictionary of Connecticut; by Henry Gannett.
118, Geographic dictionary of New Jersey; by Henry Gannett.
119, Geological reconnoissance in Northwest Wyoming; by G. H. Eldridge.
120, Devonian system of Eastern Pennsylvania and New York; by C. S. Prosser.
121, Bibliography of North American paleontology, 1888-92; by C. R. Keyes.
122, Results of primary triangulation: by Henry Gannett.
123, Dictionary of the geographic positions in the United States; comp. by Henry Gannett.
124, Revision of the American fossil cockroaches, with descriptions of new forms; by S. H. Scudder.
125, Constitution of the silicates; by F. W. Clarke.
126, Mineralogical lexicon of Franklin, Hampshire and Hampden Counties, Mass.: by B. K. Emerson.
127, Catalogue and index of contributions to North American geology, 1732-1891; by N. H. Darton.
128, Bear River formation and its characteristic fauna; by C. A. White.
129, Earthquakes in California in 1894; by C. D. Perrine.
130, Bibliography and index of North American geology, paleontology, petrology and mineralogy for 1892 and 1893; by F. B. Weeks.
131, Report of progress of the Division of Hydrography for the calendar years 1893 and 1894: by F. H. Newell.
132, Disseminated lead ores of Southeastern Missouri; by Arthur Winslow.
133, Contributions to the Cretaceous paleontology of the Pacific Coast: The fauna of the Knoxville beds; by T. W. Stanton.
134, Cambrian rocks of Pennsylvania; by C. D. Walcott.
135, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1894; by F. B. Weeks.
136, Ancient volcanic rocks of South Mountain, Pa.; by Florence Bascom.
137, Geology of the Fort Riley Military Reservation and vicinity, Kansas; by Robert Hay.
138, Artesian well prospects in the Atlantic coastal plain region; by N. H. Darton.
139, Geology of the Castle Mountain Mining District, Mont.; by W. H. Weed and L. V. Pirsson.
140, Report of progress of the Division of Hydrography for the calendar year 1895; by F. H. Newell.
141, Eocene deposits of the Middle Atlantic slope in Delaware, Maryland and Virginia; by W. B. Clark.
142, Brief contribution to the geology and paleontology of Northwestern Louisiana; by T. W. Vaughan.
143, Bibliography of clays and the ceramic arts; by J. C. Branner.
144, Moraines of the Missouri coteau and their attendant deposits; by J. E. Todd.
145, Potomac formation in Virginia; by W. M. Fontaine.
146, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1895; by F. B. Weeks.
147, Earthquakes in California in 1895; by C. D. Perrine.
148, Analyses of rocks, with a chapter on analytical methods, laboratory of the United States Geological Survey, 1880 to 1896; by F. W. Clarke and W. F. Hillebrand.
149, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1896; by F. B. Weeks.
150, Educational series of rock specimens collected and distributed by the United States Geological Survey: by J. S. Diller.
151, Lower Cretaceous gryphæas of the Texas region: by R. T. Hill and T. W. Vaughan.
152, Catalogue of the Cretaceous and Tertiary plants of North America; by F. H. Knowlton.
153, Bibliographic index of North American Carboniferous invertebrates; by Stuart Weller.
154, Gazetteer of Kansas; by Henry Gannett.
155, Earthquakes in California in 1896 and 1897; by C. D. Perrine.
156, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1897; by F. B. Weeks.
157, Gneisses, gabbro-schists and associated rocks of Southwestern Minnesota; by C. W. Hall.
158, Moraines of Southeastern South Dakota and their attendant deposits; by J. E. Todd.
159, Geology of Eastern Berkshire Co., Mass.; by B. K. Emerson.
160, Dictionary of altitudes in the United States (ed. 3.); comp. by Henry Gannett.

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87 **UNITED STATES.** Bulletin of the Geological Survey—(*Continued*).

161, Earthquakes in California in 1898; by C. D. Perrine.
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v. 1, Bonneville; by G. K. Gilbert.
v. 2, Tertiary history of the Grand Cañon District; by C. E. Dutton.
v. 3, Geology of the Comstock Lode and the Washoe District; by G. F. Becker.
v. 4, Comstock mining and miners; by Eliot Lord.
v. 5, Copper-bearing rocks of Lake Superior; by R D. Irving.
v. 6, Contributions to the knowledge of the older Mesozoic flora of Virginia; by W. M. Fontaine.
v. 7, Silver-lead deposits of Eureka, Nev.; by J. S. Curtis.
v. 8, Paleontology of the Eureka District; by C. D. Walcott.
v. 9, Brachiopoda and lamellibranchiata of the Raritan clays and greensand marls of New Jersey; by R. P. Whitfield.
v. 10, Dinocerata: A monograph of an extinct order of gigantic mammals; by O. C. Marsh.
v. 11, Geological history of Lake Lahontan, a Quaternary lake of Northwestern Nevada; by I. C. Russell.
v. 12, Geology and mining industry of Leadville, Colo.; by S. F. Emmons.
v. 13, Geology of the quicksilver deposits of the Pacific slope; by G. F. Becker.
v. 14, Fossil fishes and fossil plants of the Triassic rocks of New Jersey and the Connecticut Valley; by J. S. Newberry.
v. 15, Potomac or younger Mesozoic flora; by W. M. Fontaine.
v. 16, Paleozoic fishes of North America; by J. S. Newberry.
v. 17, Flora of the Dakota group; by Leo Lesquereux.
v. 18, Gasteropoda and cephalopoda of the Raritan clays and greensand marls of New Jersey; by R. P. Whitfield.
v. 19, Penokee iron-bearing series of Michigan and Wisconsin; by R. D. Irving and C. R. Van Hise.
v. 20, Geology of the Eureka District, Nev.; by Arnold Hague.
v. 21, Tertiary rhynchophorous coleoptera of the United States; by S. H. Scudder.
v. 22, Manual of topographic methods; by Henry Gannett.
v. 23, Geology of the Green Mountains in Massachusetts; by Raphael Pumpelly, J. E. Wolff and T. N. Dale.
v. 24, Mollusca and crustacea of the Miocene formations of New Jersey; by R. P. Whitfield.
v. 25, The glacial Lake Agassiz; by Warren Upham.
v. 26, Flora of the Amboy clays; by J. S. Newberry.
v. 27, Geology of the Denver Basin in Colorado; by S. F. Emmons, Whitman Cross and G. H. Eldridge.
v. 28, Marquette iron-bearing district of Michigan; by C. R. Van Hise and W. S. Bayley.
v. 29, Geology of old Hampshire Co., Mass.; comprising Franklin, Hampshire and Hampden Counties; by B. K. Emerson.
v. 30, Fossil medusæ; by C. D. Walcott.
v. 31, Geology of the Aspen Mining District, Colo.; by J. E. Spurr.
v. 32, Geology of the Yellowstone National Park, Pt. 2. (Pt. 1 wanting.)
v. 33, Geology of the Narragansett Basin; by N. S. Shaler, J. B. Woodworth and A. F. Foerste.
v. 34, Glacial gravels of Maine and their associated deposits; by G. H. Stone.
v. 35, Later extinct floras of North America; by J. S. Newberry.
v. 36, Crystal Falls iron-bearing district of Michigan; by J. M. Clements and H. L. Smith.

Yh—(*Continued*).

41 **UNITED STATES.** Monographs of the Geological Survey—(*Continued*).
v. 37, Fossil flora of the lower coal measures of Missouri; by David White.
v. 38, Illinois glacial lobe; by Frank Leverett.

99 ——Notes on the distribution of iron ores in the United States; comp. from various geological reports, by Anthony W. Vogdes. Artillery School. Fort Monroe, 1888. 24 pp., 9 x 7, pap.

140 ——On the organization of scientific work of the general government; by John W. Powell. U. S.-Congress. Note: Extract from testimony taken by the Joint Commission to "consider the present organizations of the Signal Service, Geological Survey, Coast and Geodetic Survey and the Hydrographic Office of the Navy Department, with a view to secure greater efficiency and economy of administration:" Testimony relating to the method of conducting geological and topographical surveys. Wash., 1895. 468 pp., map, 9 x 6, pap.

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88 ——Report of the Geological and Geographical Survey of the Territories; v. 6, 8, 12. Wash.. 1874–83. 3 v., pl., 12 x 9, cl.

89 ——Report of the Geological Exploration of the Fortieth Parallel, made under the direction of A. A. Humphreys, Chief of Engineers; by Clarence King. (Professional Papers of the Engineer Department, U. S. Army.) Wash., 1870–80. 7 v., il., pl., maps, tab., 12 x 9 (atlas 31 x 24), pap., cl.

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109 **VIRGINIA.** Coal and iron resources of Virginia; their extent, commercial value, and early development considered: A paper read before a meeting of members of the Legislature and prominent citizens in the Capital at Richmond, Feb. 19th, 1872. J. D. Imboden. Richmond, 1872. 28 pp., 9 x 6, pap.

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88 ——Geology and mineral resources of the James River Valley, Va. J. L. Campbell. N. Y., 1882. 119 pp., map, 9 x 6, cl.

——Geology of the Big Stone Gap coal field of Virginia and Kentucky. M. R. Campbell. (U. S. Geological Survey. Bulletin No. 111.) 1893. (See Yh-87.)

110 ——Iron ores and other minerals from the New River in Virginia. New River Railroad, Mining & Manufacturing Co. Phil., 1876. 6 pp., map, 9 x 6, pap.

——Potomac formation in Virginia. W. M. Fontaine. (U. S. Geological Survey. Bulletin No. 145.) 1896. (See Yh-87.)

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102 ——Report on the Marion Co., Va. cannel coal field. P. T. Tyson. Balt., 1858. 8 pp., map, 9 x 6, pap.

——Western section of map of Southwest Virginia and contiguous territory, mineral resources and railway facilities. C. R. Boyd. 1894. (See Qf-408.)

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——Glaciers of Mount Rainier; with a paper on the rocks of Mount Rainier; by George Otis Smith. I. C. Russell. 1898. (See Yh-40, Annual report, 1896-97. Pt. 2, p. 349.)

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——Geological history of Wisconsin and description of areas and quarries. E. R. Buckley. 1898. (See Jc-25, p. 75.)

27 ——Geology of Wisconsin: Survey of 1873-79. Madison, 1880. 1 v., pl., maps, tab., 10 x 7, cl.

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50 ——Hydro-geology of the Upper Mississippi Valley and some of the adjoining territory. D. W. Mead. no place, 1894. 68 pp., maps, tab., 9 x 6, pap.

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——Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. 1894-98. (See Qf-389.50.)

——Geological reconnoissance in Northwest Wyoming. G. H. Eldridge. (U. S. Geological Survey. Bulletin No. 119.) 1894. (See Yh-87.)

——Report upon the reconnaissance of Northwestern Wyoming; including Yellowstone National Park, made in the summer of 1873; by William A. Jones; with appendix. U. S.-Corps of Engineers. 1875. (See Qe-48.)

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GENERAL SCIENCE—MATHEMATICS.

Yh9

ALGEBRA.

60 **BRIOT, CHARLES.** Leçons d'algèbre conformes aux programmes officiels de l'enseignement des lycées: première partie, à l'usage des élèves de la classe de seconde et des candidats au baccalauréat ès sciences, à l'École de marine, et à l'École militaire de Saint-Cyr; précédée d'une introduction à l'usage des élèves de la classe de troisième. ed. 4. Paris, 1858. 7 + 299 pp., 9 x 5, pap.

29 **DAY, JEREMIAH.** Introduction to algebra; being the first part of a course of mathematics, adapted to the method of instruction in the American colleges. ed. 4. New Haven, 1827. 7 + 332 pp., pl., 8 x 5, sh.

52 **JONES, G. W.** Drill-book in algebra. Ithaca, 1892. 16 + 272 pp., 7 x 5, cl.

78 **LAGOUT, ÉDOUARD.** Panorama de l'algèbre. Paris, 1879. 72 pp., il., 8 x 5, pap.

56 **MERRIMAN, MANSFIELD.** Final formulas for the algebraic solution of quartic equations. N. Y., 1892. pp. 201-205, 8 x 5, pap.

69 **MURPHY, ROBERT.** Treatise on the theory of algebraical equations. (Library of Useful Knowledge.) Lond., 1839. 171 pp., 9 x 5, b. p.

21 **ROBINSON, H. N.** Theoretical and practical treatise on algebra; in which the excellencies of the demonstrative methods of the French are combined with the more practical operations of the English, and concise solutions pointed out and particularly inculcated; designed for schools, colleges and private students. ed. 38. N. Y., 1858. 360 pp., 8 x 5, sh.

75 **VOSE, G. L.** Graphic method for solving certain algebraic problems. (Van Nostrand's Science Ser.) N. Y., 1875. 62 pp., il., pl., 6 x 4, bds.

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ARITHMETIC.

85 **BARAVELLI, G. C.** Nota su alcuni aiuti alla esecuzione dei calcoli numerica. Roma, 1895. 27 pp., 11 x 8, pap.

7 **HALL, J. H.** Tables of squares, containing the true square of every foot and fraction thereof from 0 to 100 feet, advancing by one-sixteenth of an inch. Chic., 1899. 7 + 99 pp., 6 x 3, mor.

8 **HEATH, NOBLE.** Treatise on arithmetic, through which the entire science can be most expeditiously and perfectly learned without the aid of a teacher; designed for the use of schools and private students. Phil., 1856. 455 pp., 7 x 5, sh.

65 **KENT, W. S. G.** Some properties and tables of the one quarter squares of numbers. Phillipsburg, 1876. unpaged, 12 x 8, pap.

NYSTROM, J. W. Duodenal system of arithmetic, measures, weights, and coins. 1875. (See V-76, p. 307.)

2 **PORTER, J. H., and R.** Porters' new system of mathematics, with the addition of a complete ready reckoner; for the use of farmers and mechanics. ed. 3. Hartford, 1843. 72 pp., 7 x 4, ½ skiv.

CALCULUS.

10 **CARLL, L. B.** Treatise on the calculus of variations arranged with the purpose of introducing, as well as illustrating, its principles to the reader by means of problems, and designed to present in all important particulars a complete view of the present state of the science. N. Y., 1881. 17 + 568 pp., 9 x 6, cl.

74 **GOULD, E. S.** Primer of the calculus. N. Y., 1896. 91 pp., pl., 6 x 4, bds.

38 **HADDON, JAMES.** Examples and solutions of the differential calculus. new ed. Lond., no date. 4 + 162 pp., il., 7 x 4, cl.

31 **HANN, JAMES.** Examples on the integral calculus. Lond., 1850. 128 pp., 7 x 4, cl.

41 **LAGRANGE, J. L.** Leçons sur le calcul des fonctions, servant de commentaire et de supplement à la théorie des fonctions analytiques. Paris, 1808. 325 + 90 pp., 10 x 8, ½ skiv.

42 ——Théorie des fonctions analytiques, contenant les principes du calcul différentiel, dégagés de toute considération d'infiniment petits, d'évanouissants, de limites et de fluxions, et réduits à l'analyse algébrique des quantités finies; revue et suivie d'une note, par J. A. Serret. ed. 3, rev. Paris, 1847. 12 + 399 pp., 10 x 8, ½ ro.

11 **MACLAURIN, COLIN.** Treatise on fluxions; to which is prefixed an account of his life; the whole carefully corrected and revised by an eminent mathematician. ed. 2. Lond., 1801. 2 v., pl., 8 x 5, cf.

57 **RICE, J. M., and W. W. JOHNSON.** On a new method of obtaining the differentials of functions, with especial reference to the Newtonian conception of rates or velocities. rev. ed. N. Y., 1875. 32 pp., il., 7 x 5, pap.

36 **WOOLHOUSE, W. S. B.** Elements of the differential calculus. Lond., 1852. 8 + 160 pp., 7 x 4, cl.

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97 **BAKER, T.** Formulæ, rules, and examples for candidates for the military, naval, and civil service examinations, also for mathematical students and engineers. Note: A collection of formulæ, rules and examples in every branch of mathematics. Lond., 1862. various pagings, 7 x 5, cl.

BARLOW, PETER. New mathematical and philosophical dictionary; comprising an explanation of the terms and principles of pure and mixed mathematics and such branches of natural philosophy as are susceptible of mathematical investigation. 1814. (See U-31.)

BIXBY, W. H. Method of general numerical solution as to both solution of equations and interpolation in series; selected from the "Proceedings of the London Mathematical Society." 1880. (See Fb-30, p. 9.)

6 **BYRNE, OLIVER.** Practical, short, and direct method of calculating the logarithm of any given number and the number corresponding to any given logarithm. N. Y., 1849. 32 pp., 8 x 5, cl.

23 **CALLET, FRANÇOIS.** Tables portatives de logarithmes, contenant les logarithmes des nombres depuis 1 jusqu'à 108 000; les logarithmes des sinus et tangentes, de seconde en seconde pour les cinq premiers degrés, de dix en dix secondes pour tous les degrés du quart de cercle; et suivant la nouvelle division centésimale de dix-millième en dix-millième. Paris, 1795 (tirage, 1843). 118 + 680 pp., 9 x 6, ½ cf.

81 **CHRISTENSEN, C. C.** Graphical diagram for approximate calculations for civil and mechanical engineers, architects and contractors. Chic., 1890. blue print, 26 x 6, pap.

24 **CLAUDEL, J.** Introduction théorique et pratique à la science de l'ingénieur. Contents: Pt. 1, Arithmétique. Pt. 2, Algèbre. Pt. 3, Géométrie. Pt. 4, Trigonométrie. Pt. 5, Tracé et mesure des courbes. Pt. 6, Statique. Pt. 7, Dynamique. Pt. 8, Hydrostatique et hydrodynamique. Paris, 1848. 11 + 447 pp., il., 9 x 6, pap.

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26 **COMTE, AUGUSTE.** Philosophy of mathematics; tr. fr. the Cours de philosophie positive, by W. M. Gillespie. N. Y., 1851. 260 pp., 9 x 6, cl.

38 **CONDORCET, *MARQUIS* DE.** Essai sur l'application de l'analyse à la probabilité des décisions rendues à la pluralité des voix. Paris, 1785. 191 + 304 pp., 10 x 8, cf.

CROCKETT, C. W., ed. Tables of common logarithms of numbers; logarithms of trigonometric functions. 1896. (See R-31, p. 383.)

18 **EATON, AMOS.** Prodromus of a practical treatise on the mathematical arts: containing directions for surveying and engineering. Troy, 1838. 7 + 191 pp., il., pl., 9 x 5, bds.

54 **FILIPOWSKI, H. E.** Table of anti-logarithms; containing to seven places of decimals, natural numbers answering to all logarithms from .00001 to .99999; and an improved table of Gauss's logarithms, by which may be found the logarithm to the sum or difference of two quantities whose logarithms are given; preceded by an introduction, containing also the history of logarithms, their construction, and the various improvements made thereon since their invention; with an appendix, containing a table of annuities for three joint lives at three per cent, Carlisle. ed. 2, rev. Lond., 1851. 16 + 220 + 10 pp., 9 x 6, cl.

49 **FISHER, THOMAS.** Mathematics simplified and made attractive; or, the Laws of motion explained. Note: Plates wanting. Phil., 1853. 128 pp., 9 x 5, cl.

22 **GREGORY, OLINTHUS.** Mathematics for practical men; being a common-place book of principles, theorems, rules and tables, in various departments of pure and mixed mathematics, with their application especially to the pursuits of surveyors, architects, mechanics and civil engineers. 1st Amer. fr. 3d Lond. ed. Phil., 1834. 12 + 427 pp., pl., 9 x 5, sh.

80 **HAGEN, G.** Grundzüge der Wahrscheinlichkeits-Rechnung. ed. 3, rev. Ber., 1882. 10 + 219 pp., 9 x 6, pap.

37 **HASSLER, F. R.** Logarithmic and trigonometric tables, to seven places of decimals, in a pocket form; in which the errors of former tables are corrected. N. Y., 1830. 10 pp., tab., 7 x 4, sh.

HEATHER, J. F. Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. 1849. (See R-76.)

53 **HOLMAN, S. W.** Computation rules and logarithms, with tables of other useful functions. N. Y., 1896. 45 + 73 pp., 10 x 7, cl.

39 **HUTTON, CHARLES.** Course of mathematics, composed for the use of the Royal Military Academy; entirely re-modelled, and adapted to the course of instruction now pursued in the Royal Military Academy, by William Rutherford. new ed. Lond., 1849. 7 + 895 pp., il., 9 x 6, cl.

19 ——Course of mathematics for the use of academies as well as private tuition; with many corrections and improvements by Olinthus Gregory; with the additions of Robert Adrain. 5th Amer. fr. 9th Lond. ed. N. Y., 1831. 2 v., il., pl., 9 x 5, cf.

——Mathematical and philosophical dictionary; containing an explanation of the terms, and an account of the several subjects comprised under the heads, mathematics, astronomy and philosophy, both natural and experimental. 1795–96. (See U-26.)

JOHNSON, J. B. Johnson's tables: Stadia and earthwork tables; four-place logarithms, logarithmic traverse table, natural functions, map projections, etc. 1892. (See V-17.)

40 **JONES, G. W.** Logarithmic tables. ed. 4. Lond., 1893. 160 pp., 10 x 7, cl.

55 **LAMPE, E.** Die Entwickelung der Mathematik im Zusammenhange mit der Ausbreitung der Kultur: Rede zum Geburtsfeste Seiner Majestät des Kaisers und Königs, Wilhelm II., in der Aula der Königlichen Technischen Hochschule zu Berlin am 26. Januar, 1893 gehalten. Ber., 1893. 26 pp., 11 x 8, pap.

62 ——Die reine Mathematik in den Jahren 1884–1899; nebst Actenstücken zum Leben von Siegfried Aronhold, Weiland Professor der Mathematik, 1860–1883, an der Königlichen Technischen Hochschule zu Berlin. Ber., 1899. 48 pp., por., 10 x 7, pap.

35 **LAW, HENRY.** Mathematical tables for facilitating astronomical, nautical, trigonometrical and logarithmic calculations. Lond., 1851. 165 pp., 7 x 4, b. p.

35 ——Rudimentary treatise on logarithms. Lond., 1851. 68 pp., 7 x 4, b. p.

68 **MATHEMATICS.** (Library of Useful Knowledge.) Contents: v. 1, Study and difficulties of mathematics; arithmetic and algebra, and examples of the processes. v. 2, Geometry; trigonometry. v. 3, Algebraical geometry. v. 4, Calculus. Note: For appendix to v. 1, See Yh9-69, p. 172. Lond., 1830–42. 4 v. in 6, il., 9 x 5, ½ cf.

58 **MERRIMAN, MANSFIELD.** Elementary discussion of the principles of least squares. Phil., 1877. 15 pp., il., 9 x 6, pap.

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59 ——List of writings relating to the method of least squares, with historical and critical notes. no place, 1877 (?) 232 pp., 9 x 6, pap.

——Method of least squares applied to a hydraulic problem. 1877. (See Da-41.)

OZANAM. Recreations in mathematics and natural philosophy; lately recomposed, and greatly enlarged by Montucla, and now translated into English, and improved with many additions and observations, by Charles Hutton. 1803. (See Yl-34.)

73 **POCKET LOGARITHMS TO FOUR PLACES OF DECIMALS, INCLUDING** logarithms of numbers and logarithmic sines and tangents to single minutes; to which is added a table of natural sines, tangents and cotangents. (Van Nostrand's Science Ser.) N. Y., 1883. 139 pp., 6 x 4, bds.

POSERN, F. Resultate aus der reinen Mathematik. 1885. (See V-27, Pt. 1, v. 1, p. 408.)

88 **RICE, H. L.** Theory and practice of interpolation, including mechanical quadrature, and other important problems concerned with the tabular values of functions. Lynn, 1899. 9 + 234 pp., tab., 12 x 8, cl.

79 **RINECKER, F.** Der logarithmische Rechenschieber und seine practische Anwendung. Würzburg, 1879. 43 pp., pl., 9 x 6, pap.

45 **SCHRÖN, L.** Tables de logarithmes à sept décimales, pour les nombres depuis 1 jusqu'à 108 000, et pour les fonctions trigonométriques de dix en dix secondes; précédés d'une introduction française, par J. Hoüel. ed. 6, rev. Brunswick, 1866. various pagings, 10 x 7, ½ mor.

SCRIBNER, J. M. Engineer's, contractor's and surveyor's pocket table-book; comprising logarithms of numbers, logarithmic sines and tangents, natural sines and natural tangents, the traverse table, and a full and complete set of excavation and embankment tables; together with numerous other valuable tables for engineers, etc. ed. 10, rev. 1878. (See V-3.)

76 **SEGUIN.** Tables: Des carrés et des cubes des nombres entiers successifs de 1 à 10 000; des longueurs des circonférences et des surfaces des cercles dont les diamètres sont exprimés par les nombres entiers successifs de 1 à 1 000; des expressions trigonométriques naturelles des angles successifs de minute en minute; introductions à ces tables, par J. Claudel. Paris, 1850. 37 + 105 pp., 9 x 6, pap.

66 **TICHY, ANTON.** Graphische Logarithmen-Tafeln. Wien, 1897. 6 + 30 pp., il., 10 x 6, pap.

1 **UNITED STATES—BUREAU OF EDUCATION.** The teaching and history of mathematics in the United States; by Florian Cajori. (Circular of Information No. 3.) Wash., 1890. 400 pp., 9 x 6, pap.

5 **UNITED STATES—BUREAU OF NAVIGATION.** Logarithms of sines and cosines, with the argument in time. Wash., 1874. 7 pp., tab., 9 x 6, pap.

30 **VEGA, *BARON* VON.** Logarithmic tables of numbers and trigonometrical functions; tr. fr. the fortieth or Dr. Bremiker's thoroughly revised and enlarged edition, by W. L. F. Fischer. ed. 55. Ber., 1872. 28 + 575 pp., 9 x 6, ½ mor.

46 **YOUNG, J. R.** Mathematical tables; comprehending the logarithms of all numbers from 1 to 36 000; also the natural and logarithmic sines and tangents computed to seven places of decimals, and arranged on an improved plan; with several other tables, useful in navigation and nautical astronomy, and in other departments of practical mathematics. ed. 2. Lond., 1834. 26 + 190 pp., 8 x 4, cl.

70 **ZIMMERMANN, H.** Rechentafel nebst Sammlung häufig gebrauchter Zahlenwerthe. Ber., 1891. 34 + 204 pp., 10 x 7, cl.

GEOMETRY.

72 **ARGAND, J. R.** Imaginary quantities; their geometrical interpretation, tr. fr. the French, by A. S. Hardy. N. Y., 1881. 135 pp., il., 6 x 4, bds.

82 **BAILLAIRGÉ, C. P. F.** Papers read before the Royal Society of Canada, 1882 and 1883. Contents: 1, General application of the prismoidal formula. 2, Hints to geometers for a new edition of Euclid. 3, Simplified solutions of problems in hydrography and parting off land. 4, The areas of spherical triangles and polygons to any radius or diameter. Quebec, 1884. 42 pp., il., 8 x 6, pap.

77 ——The stereometricon; new system of measuring all bodies by one and the same rule; general application of the prismoidal formula; nomenclature and general features of each of the 200 models on the board; the areas of spherical triangles and polygons to any radius or diameter; tables. Quebec, 1884. 61 pp., 9 x 6, pap.

17 **BROOKS, EDWARD.** Plane and solid geometry: A complete course in the elements of the science. Phil., 1889. 415 pp., il., 8 x 6, cl.

3 **BURN, R. S.** Illustrated London practical geometry, and its application to architectural drawing; for the use of schools and students. Lond., 1858. 3 + 77 pp., il., 8 x 5, cl.

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86 **CASTRO, A. A. DE.** Soluzione grafica della trisezione dell' angolo. Roma, 1899. 16 pp., pl., 10 x 7, pap.

4 **DAVIES, CHARLES.** Elements of descriptive geometry, with their application to spherical trigonometry, spherical projections, and warped surfaces. Phil., 1826. 7 + 228 pp., il., pl., 9 x 5, ¾ sh.

61 ——Examination of the demonstrations of Davies' Legendre, showing how the polygon becomes the circle, by the methods of Newton. N. Y., 1873. 3 + 36 pp., il., 7 x 5, pap.

——Treatise on shades and shadows and linear perspective. 1852. (See R-20.)

44 **DAVIS, JOHN.** Measure of the circle, perfected Jan., 1845. Providence, 1854. 156 pp., il., 9 x 5, cl.

51 **DAY, JEREMIAH.** Practical application of the principles of geometry to the mensuration of superficies and solids; adapted to the method of instruction in schools and academies. N. Y., 1848. 100 + 84 + 84 pp., il., 8 x 4, b. p.

50 **EUCLID.** First six books of the elements of Euclid, in which colored diagrams and symbols are used instead of letters for the greater ease of learners; by Oliver Byrne. Lond., 1847. 29 + 268 pp., il., 10 x 7, ½ cf.

63 **FERREL, WILLIAM.** Converging series expressing the ratio between the diameter and the circumference of a circle. (Smithsonian Contributions to Knowledge.) no place, 1871. 6 pp., 13 x 10, pap.

GEOMETRY, PLANE, SOLID, SPHERICAL; to which is added in an appendix the theory of projection, so far as it is auxiliary to geometry. (Library of Useful Knowledge.) 1830. (See Yh9-68, v. 2, p. 1.)

32 **HANN, JAMES.** Rudimentary treatise on analytical geometry and conic sections. Lond., 1850. 128 pp., il., 7 x 4, cl.

9 **KOSAK, GEORG.** Katechismus der speziellen darstellenden Geometrie für Maschinen- und Bau-Constructeure, Real- und Gewerbeschulen, etc. Wien, 1871. 178 pp., il., 2 pl., 7 x 4, bds.

25 **LEGENDRE, A. M.** Elements of geometry; tr. fr. the French, for the use of the students of the University at Cambridge, New England; by John Farrar. new ed., enl. Bost., 1831. 15 + 235 pp., 16 pl., 10 x 6, bds.

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48 **NARRIEN, JOHN.** Analytical geometry; with the properties of conic sections, and an appendix constituting a tract on descriptive geometry; for the use of the Royal Military College. Lond., 1846. 24 + 202 pp., il., 9 x 5, cl.

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